

Encyclopedia of Traditional Chinese Medicines - Molecular Structures, Pharmacological Activities, Natural Sources and Applications

Vol. 1: Isolated Compounds A-C

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Volume 1 Isolated Compounds (A-C)

The Isolated Compounds part of the books lists in alphabetical order all 23033 isolated compounds key names isolated from 6926 TCM original plants and congeners. Following symbols in prefix are ineffective in ordering: *D*-, *L*-, *dl*, *R*-, *S*-, *E*-, *Z*-, *O*-, *N*-, *C*-, *H*-, *cis*-, *trans*-, *ent*-, *meso*-, *rel*-, *erythro*-, *threo*-, *sec*-, *chiro*-, *para*-, *exo*-, *m*-, *o*-, *p*-, *n*-, α -, β -, γ -, δ -, ε -, κ -, ζ -, ψ -, ω -, (+), (−), ($\pm$) etc., and: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, {, }, [,], (,), ,, ;, , *, ', ", " , $\rightarrow$, etc.

For each compound entry, data terms are listed as following format:

Title line: **compound code** **main name**

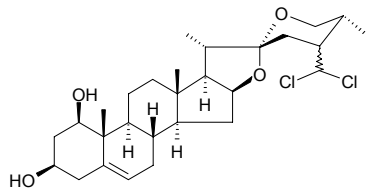
Data body: other name(s) [CASRN] formula (relative molecular mass). Physico-chemical properties. Pharm: a sequence of formatted pharmacological activity data. Source: a sequence of combination of plant PIN-YIN name and Latin name. Ref: a sequence of reference numbers.

STRUCTURE DIAGRAM

A

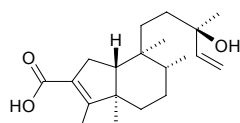
1 Abamagenin

[38094-55-2] $C_{28}H_{42}Cl_2O_4$ (513.55). Source: HU WEI LAN *Sansevieria trifasciata*. Ref: 1552.



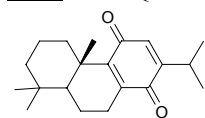
2 (+)-(4→2)-Abeo-kolavelool-3-oic acid

$C_{20}H_{34}O_3$ (320.48). Colorless amorphous solid, $[\alpha]_D^{25} = +23.8^\circ$ ($c = 0.04$, $CHCl_3$). Source: BA XI MA DOU LING *Aristolochia chamissonis*. Ref: 1904.



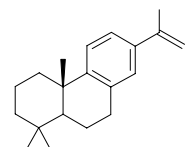
3 Abieta-8,12-dien-11,14-dione

12-Deoxyroyleanone $C_{20}H_{28}O_2$ (300.44). $[\alpha]_D^{20} = -60.0^\circ$ ($c = 0.05$, $CHCl_3$). Source: TU ER QI SHU WEI CAO *Salvia cilicica*. Ref: 1930.



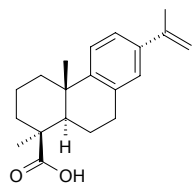
4 (+)-8,11,13,15-Abietatetraene

$C_{20}H_{28}$ (268.45). $[\alpha]_D^{24} = +48.2^\circ$ ($c = 0.22$, MeOH). Source: MIN WAN BA JIAO *Illicium minwanense* (pericarp: yield = 0.00011%dw). Ref: 4697.



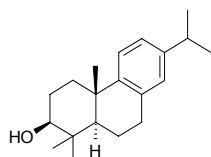
5 8,11,13,15-Abietatetraen-19-oic acid

$C_{20}H_{26}O_2$ (298.43). White amorphous powder. Source: JIA DI FENG PI *Illicium jiadifengpi* (bark). Ref: 4560.



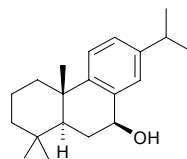
6 Abietatriene-3β-ol

[78078-41-8] $C_{20}H_{30}O$ (286.46). mp 109~111°C, (nat.), 136.5~138°C (syn.), $[\alpha]_D = +50.4^\circ$ ($CHCl_3$). Source: MAN JING ZI *Vitex trifolia*. Ref: 746, 1521.



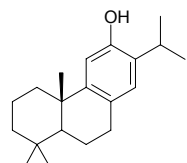
7 Abieta-8,11,13-trien-7β-ol

$C_{20}H_{30}O$ (286.46). $[\alpha]_D^{25} = +34.2^\circ$ ($c = 1.0$, $CHCl_3$). Source: CHANG GENG CU FEI *Cephalotaxus harringtonia* var. *drupacea*. Ref: 5401.



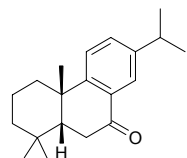
8 (+)-8,11,13-Abietatrien-12-ol

$C_{20}H_{30}O$ (286.46). Orange gum, $[\alpha]_D^{26.7} = +20.7^\circ$ ($c = 10.15$, $CHCl_3$). Pharm: Antiplasmodial (*Plasmodium falciparum* K1 *in vitro*, $IC_{50} = (0.63 \pm 0.05) \mu g/mL$, control Chloroquine, $IC_{50} = (0.18 \pm 0.01) \mu g/mL$; D10, $IC_{50} = (0.95 \pm 0.08) \mu g/mL$, Chloroquine, $IC_{50} = (0.012 \pm 0.001) \mu g/mL$; cytotoxic (CHO, *in vitro*, $IC_{50} = (51.69 \pm 2.67) \mu g/mL$; control Daunorubicin $IC_{50} = (1.53 \pm 0.15) \mu g/mL$; HepG2 $IC_{50} = (43.71 \pm 6.07) \mu g/mL$, Daunorubicin $IC_{50} = (1.46 \pm 0.20) \mu g/mL$). Source: NAN FEI GOU MA *Harpagophytum procumbens*. Ref: 5438.



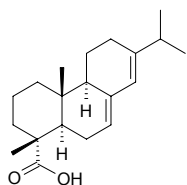
9 Abieta-8,11,13-trien-7-one

$C_{20}H_{28}O$ (284.45). Pharm: 12(S)-LOX inhibitor inactive (hmn platelets, 100 $\mu g/mL$, 12(S)-HETE Production inhibitor inactive). Source: OU ZHOU CI BAI *Juniperus communis* (wood), YUAN BAI *Sabina chinensis*. Ref: 4980.



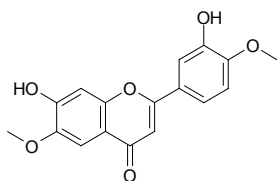
10 Abietic acid

7,13-Abietadien-18-oil acid; Sylvic acid [514-10-3] $C_{20}H_{30}O_2$ (302.46). Lamellar crystals (ethanol), mp 171~173°C, $[\alpha]_D^{15} = -102^\circ$ (ethanol); mp (–) 171~173°C, ($\pm$) 148~150°C. Pharm: Antibacterial (*Streptococcus* var., MIC = 25mg/L; *Staphylococcus aureus*, MIC = 100mg/L; *Corynebacterium acnes*, MIC = 25 $\mu g/mL$); antineoplastic (S_{180}); antithrombotic; Na^+ , K^+ -ATP inhibitor; antiulcerative; promotes growth of bacteria producing butyric and lactic acids; topical protectant; toxin (pulmonary toxicity). Source: SONG XIANG *Pinus massoniana*. Ref: 6, 631, 900.

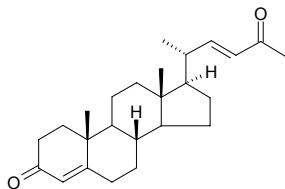


11 Abrectorin

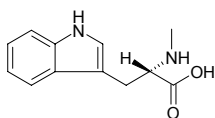
3',7-Dihydroxy-4',6-dimethoxyflavone C₁₇H₁₄O₆ (314.30). Crystals, mp 229~230°C, 273~274°C. Source: XIANG SI TENG *Abrus precatorius*. Ref: 660.

**12 Abridin**

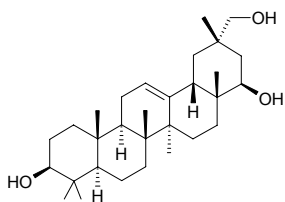
C₂₅H₃₆O₂ (368.56). Crystals (MeOH), mp 67~68°C. Source: XIANG SI ZI *Abrus precatorius*. Ref: 660.

**13 Abrine**

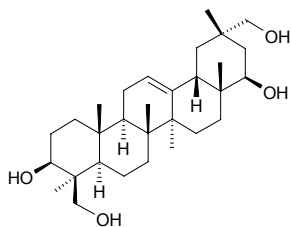
N-Methyl-*L*-tryptophan [526-31-8] C₁₂H₁₄N₂O₂ (218.26). Prismatic crystals (water), mp 295°C (dec). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*] (dried whole herb: content = 0.0317%^[5508]), XIANG SI ZI *Abrus precatorius*. Ref: 1, 5, 6, 5508.

**14 Abrisapogenol A**

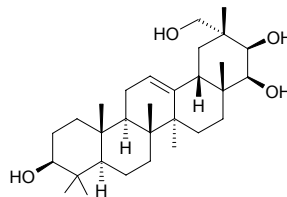
C₃₀H₅₀O₃ (458.73). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. Ref: 1523.

**15 Abrisapogenol B**

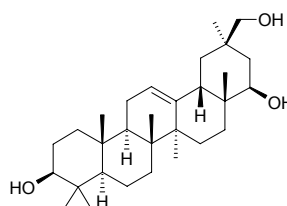
[121994-06-7] C₃₀H₅₀O₄ (474.73). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. Ref: 1524.

**16 Abrisapogenol C**

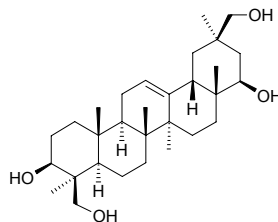
C₃₀H₅₀O₄ (474.73). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. Ref: 1523, 1525.

**17 Abrisapogenol D**

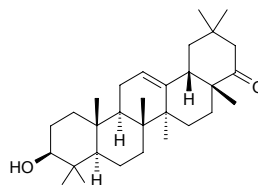
[10379-65-4] C₃₀H₅₀O₃ (458.73). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. Ref: 1524, 1525.

**18 Abrisapogenol E**

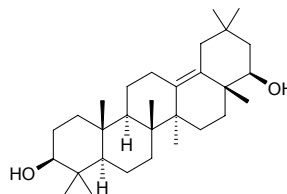
[121994-07-8] C₃₀H₅₀O₄ (474.73). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. Ref: 1524, 1525.

**19 Abrisapogenol F**

[121994-08-9] C₃₀H₄₈O₂ (440.72). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. Ref: 1524.

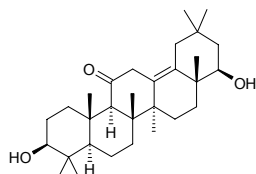
**20 Abrisapogenol G**

[121994-09-0] C₃₀H₅₀O₂ (442.73). Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*]. Ref: 1524.

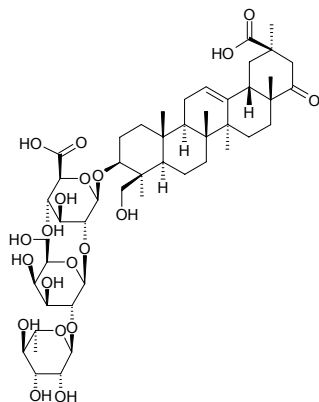


21 Abrisapogenol J

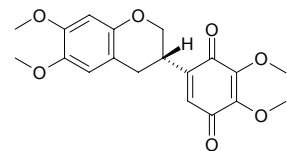
$C_{30}H_{48}O_3$ (456.72). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1527.

**22 Abrisaponin I**

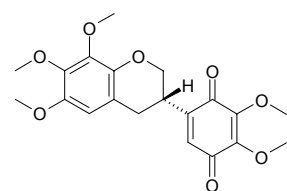
$C_{48}H_{74}O_{20}$ (971.11). Source: JI GU CAO *Abrus fruticosus* [Syn. *Abrus cantoniensis*], SHAN DOU GEN *Sophora subprostrata* [Syn. *Sophora tonkinensis*]. Ref: 1521, 1526.

**23 Abruquinone A**

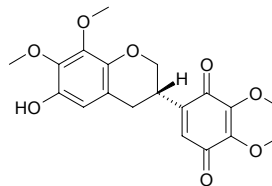
[71593-10-7] $C_{19}H_{20}O_7$ (360.37). Pharm: Platelet aggregation inhibitor; antiallergic and anti-inflammatory (inhibits formation of peroxide, $IC_{50} < 0.3 \mu\text{g/mL}$, inhibits rat neutrophilic cell, $IC_{50} < 1 \mu\text{g/mL}$, inhibits release of β -glucuronidase, lysozym and histamine in mastocyte, $IC_{50} < 1 \mu\text{g/mL}$); reduces plasma's exosmosis (normal or treated mus, bradykinin-induced or P substance-induced). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1528, 1687.

**24 Abruquinone B**

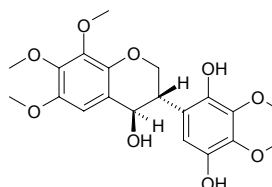
[71593-09-4] $C_{20}H_{22}O_8$ (390.39). Brown viscous liquid, $[\alpha]_D^{25} = +128.6^\circ$ ($c = 0.25$, MeOH). Pharm: platelet aggregation inhibitor (rbt, caused by arachidonic acid, $IC_{50} < 5 \mu\text{g/mL}$, caused by collagen, $IC_{50} < 5 \mu\text{g/mL}$)^[1528]; antituberculous (MIC = $(12.5 \pm 0.0) \mu\text{g/mL}$)^[4956]; antimalarial (antiplasmodial, $IC_{50} = (1.5 \pm 0.2) \mu\text{g/mL}$)^[4956]; cytotoxic (Vero cells, $IC_{50} > 50 \mu\text{g/mL}$; KB cells, $IC_{50} = (9.9 \pm 0.3) \mu\text{g/mL}$; BC cells, $IC_{50} = (5.7 \pm 0.2) \mu\text{g/mL}$)^[4956]. Source: XIANG SI ZI *Abrus precatorius*, XIANG SI TENG *Abrus precatorius* (aerial parts). Ref: 1528, 4956.

**25 Abruquinone C**

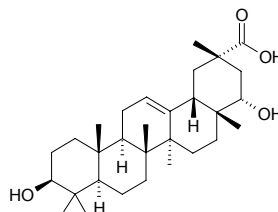
[71593-11-8] $C_{19}H_{20}O_8$ (376.37). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1528.

**26 Abruquinone G**

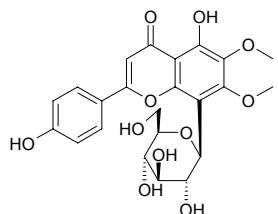
$C_{20}H_{24}O_9$ (408.41). White needles, $[\alpha]_D^{25} = -56.3^\circ$ ($c = 0.64$, MeOH). Pharm: Antiviral ($IC_{50} = 20\text{--}50 \mu\text{g/mL}$); cytotoxic (Vero cell, $IC_{50} = 30\text{--}40 \mu\text{g/mL}$). Source: XIANG SI TENG *Abrus precatorius* (aerial parts). Ref: 4956.

**27 Abrusgenic acid**

Maytenfolic acid; $3\beta,22\alpha$ -Dihydroxyolean-12-en-29-oic acid [84108-17-8] $C_{30}H_{48}O_4$ (472.71). Colorless acicular crystals, mp $320\text{--}322^\circ\text{C}$, $[\alpha]_D = 34.2^\circ$ ($c = 1.2$, pyridine). Pharm: Antineoplastic (P_{388} , 6.25mg/kg, biotic prolonged rate = 148%)^[1207]; anti-HIV (inhibits HIV replication, H9 lymphocytes, IC_{50} (concentration that inhibits uninfected H9 cell growth by 50%) $> 25 \mu\text{g/mL}$, $EC_{50} = 5.65 \mu\text{g/mL}$, TI = $4.40 \mu\text{g/mL}$, control AZT, $IC_{50} = 500 \mu\text{g/mL}$, $EC_{50} = 0.0007 \mu\text{g/mL}$, TI = 737207)^[4267]; anti-inflammatory^[1207]; DPPH scavenger inactive (for $40 \mu\text{mol/L}$ DPPH radical, $SC_{50} > 40 \mu\text{mol/L}$)^[4378]. Source: HEI MAN *Tripterygium regelii*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LEI GONG TENG *Tripterygium wilfordii*, SI MIAN MU *Euonymus bungeanus*, SUO LA MU *Salacia prinoides* [Syn. *Salacia chinensis*] (stem), XIANG SI TENG *Abrus precatorius*, XIANG SI ZI *Abrus precatorius*, NAN TOU QIU HAI TANG *Begonia nantoensis* (rhizome). Ref: 1207, 1300, 4267, 4378.

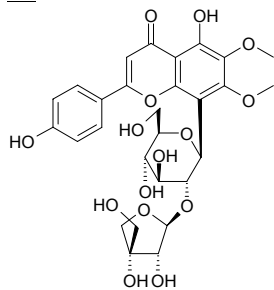
**28 Abrusin**

[120727-02-8] $C_{23}H_{24}O_{11}$ (476.44). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1527.

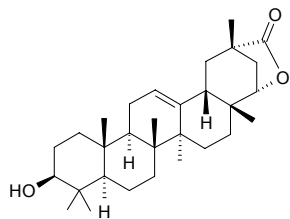


29 Abrusin-2''-O-apioside

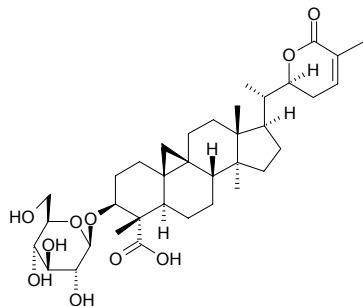
[120727-04-0] $C_{28}H_{32}O_{15}$ (608.56). Source: XIANG SI ZI *Abrus precatorius*. Ref: 1527.

**30 Abruslactone A**

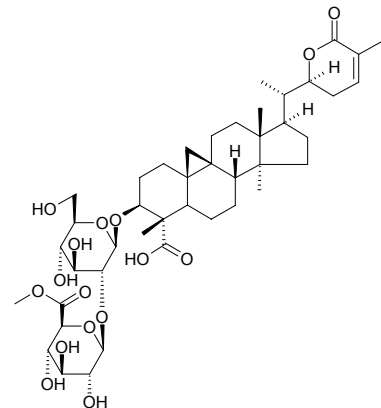
[84104-71-2] $C_{30}H_{46}O_3$ (454.70). Source: BAO XING WEI MAO *Euonymus mupinensis*, LEI GONG TENG *Tripterygium wilfordii*, XIANG SI TENG *Abrus precatorius*, XIANG SI ZI *Abrus precatorius*. Ref: 2, 278, 1300.

**31 Abrusoside A**

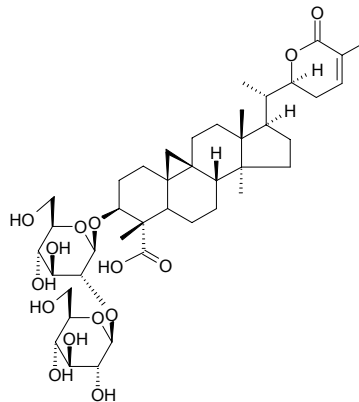
[124962-06-7] $C_{36}H_{54}O_{10}$ (646.83). Pharm: Sweetener. Source: JI GU CAO *Abrus fruticulosus* [Syn. *Abrus cantoniensis*], XIANG SI ZI *Abrus precatorius*. Ref: 658.

**32 Abrusoside B**

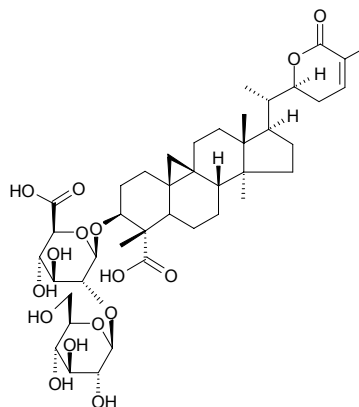
$C_{43}H_{64}O_{16}$ (836.98). Crystals, mp 243~245°C, $[\alpha]_D = +5.8^\circ$ ($c = 0.35$, pyridine). Source: XIANG SI TENG *Abrus precatorius*. Ref: 660.

**33 Abrusoside C**

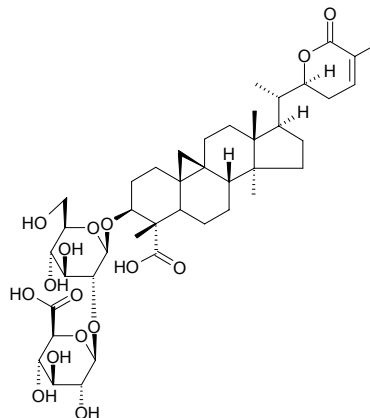
$C_{42}H_{64}O_{15}$ (808.97). Crystals, mp 260~262°C, $[\alpha]_D = +31.4^\circ$ ($c = 0.34$, pyridine). Source: XIANG SI TENG *Abrus precatorius*. Ref: 660.

**34 Abrusoside D**

$C_{42}H_{62}O_{16}$ (822.95). Crystals, mp 237~239°C, $[\alpha]_D = +9.9^\circ$ ($c = 0.31$, pyridine). Source: XIANG SI TENG *Abrus precatorius*. Ref: 660.

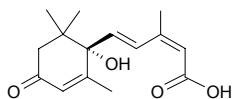
**35 Abrusoside E**

$C_{42}H_{62}O_{16}$ (822.95). Amorphous powder, mp 265°C (dec), $[\alpha]_D = +2^\circ$ ($c = 0.2$, pyridine). Source: XIANG SI TENG *Abrus precatorius*. Ref: 1521.

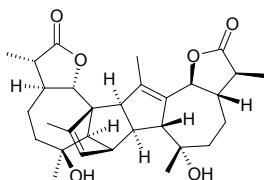


36 Absciscic acid

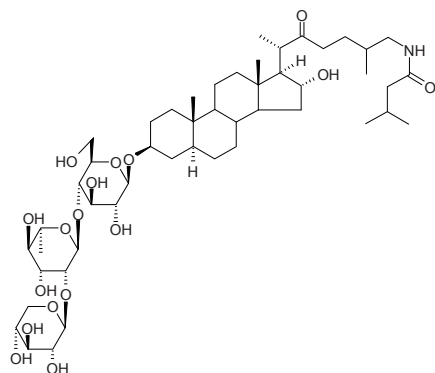
[21293-29-8] $C_{15}H_{20}O_4$ (264.32). mp 160~163°C, soluble in diethyl ether. **Pharm:** Hormone of defoliation; germination inhibitor (seed and ball root). **Source:** LU DI MIAN *Gossypium hirsutum* [Syn. *Gossypium mexicanum*], SHAN YAO *Dioscorea batatas* [Syn. *Dioscorea opposita*], WAN DOU *Pisum sativum* (in 1967, the compound was isolated from the plant by Y. Isogaya, et al.)^[5505], XIANG SI ZI *Abrus precatorius*. **Ref:** 2, 658, 5505.

**37 Absinthin**

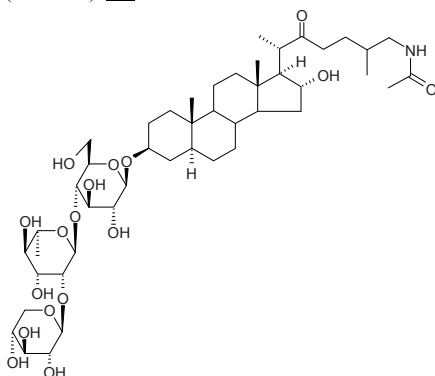
[1362-42-1] $C_{30}H_{40}O_6$ (496.65). Orange acicular crystals (anhydrous ether), mp 179~183°C (dec). **Pharm:** Anti-inflammatory (rat, orl, experimental gastric ulcer, also promotes gastric wall regeneration); supertoxic agent (causes tension, hyperspasmia, and even death after aspiration). **Source:** ZHONG YA KU HAO *Artemisia absinthium*, BAI HAO *Artemisia sieversiana*. **Ref:** 1, 6.

**38 Abutiloside A**

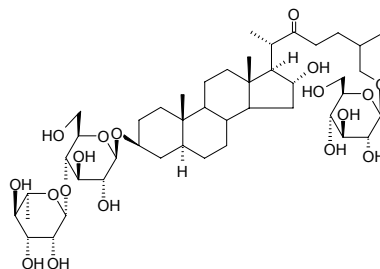
$C_{49}H_{83}NO_{17}$ (958.20). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

**39 Abutiloside B**

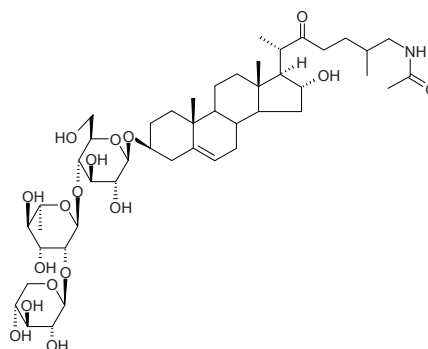
$C_{46}H_{77}NO_{17}$ (916.12). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

**40 Abutiloside F**

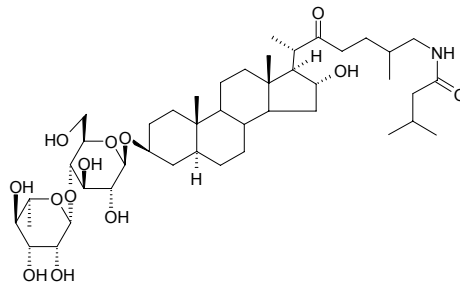
$C_{45}H_{76}O_{18}$ (905.10). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

**41 Abutiloside H**

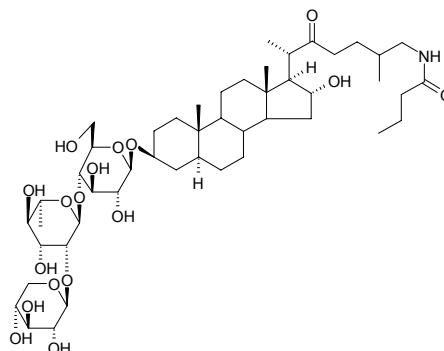
26-Acetylamino-3 β ,16 α -dihydroxy-cholest-5-en-22-one-3-O- β -D-xylopyranosyl-(1 $\rightarrow$ 2)- α -L-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -D-glucopyranoside $C_{46}H_{75}NO_{17}$ (914.11). White powder, $[\alpha]_D^{25} = -107.0^\circ$ ($c = 0.20$, MeOH). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

**42 Abutiloside I**

$C_{44}H_{75}NO_{13}$ (826.09). White powder, $[\alpha]_D^{25} = -38.7^\circ$ ($c = 0.15$, MeOH). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

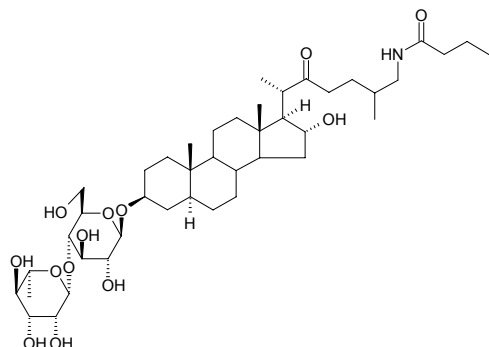
**43 Abutiloside J**

$C_{48}H_{81}NO_{17}$ (944.18). White powder, $[\alpha]_D^{25} = -54.1^\circ$ ($c = 0.95$, MeOH). **Source:** MA ZHUANG QIE *Solanum abutiloides* (fresh root). **Ref:** 4166.

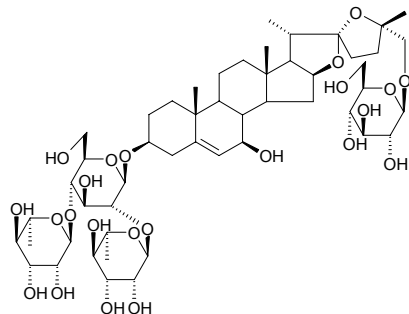


44 Abutiloside K

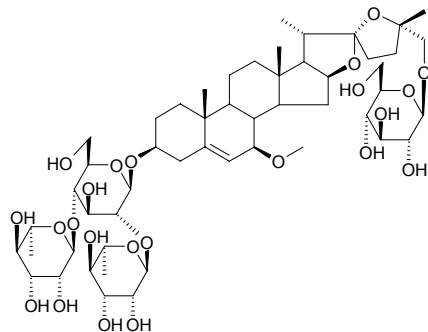
$C_{43}H_{73}NO_{13}$ (812.06). White powder, $[\alpha]_D^{25} = -50.4^\circ$ ($c = 0.25$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fresh root). Ref: 4166.

**45 Abutiloside L**

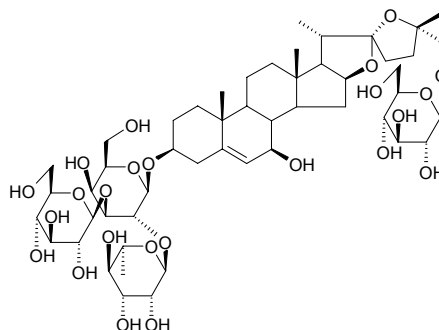
(22*S*,25*S*)-26-*O*- β -*D*-Glucopyranosyl-22,25-epoxy-furost-5-ene-3 β ,7 β ,26-triol 3-*O*- β -chacotrioside $C_{51}H_{82}O_{23}$ (1063.21). White powder, $[\alpha]_D^{25} = -107.1^\circ$ ($c = 1.15$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fruit). Ref: 3496.

**46 Abutiloside M**

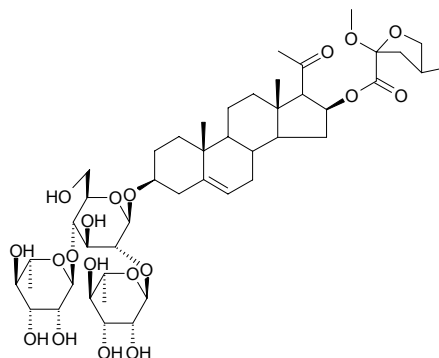
(22*S*,25*S*)-26-*O*- β -*D*-Glucopyranosyl-22,25-epoxy-7 β -methoxy-furost-5-ene-3 β ,26-diol 3-*O*- β -chacotrioside $C_{52}H_{84}O_{23}$ (1077.24). White powder, $[\alpha]_D^{25} = -110.9^\circ$ ($c = 0.37$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fruit). Ref: 3496.

**47 Abutiloside N**

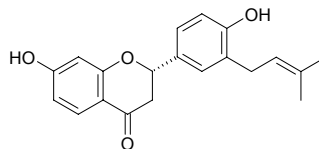
(22*S*,25*S*)-26-*O*- β -*D*-Glucopyranosyl-22,25-epoxy-furost-5-ene-3 β ,7 β ,26-triol 3-*O*- β -solatrioside $C_{51}H_{82}O_{24}$ (1079.21). White powder, $[\alpha]_D^{25} = -84.8^\circ$ ($c = 0.24$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fruit). Ref: 3496.

**48 Abutiloside O**

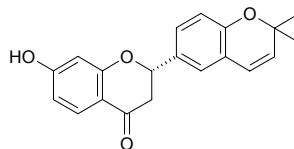
3-*O*- β -*D*-Chacotriosyl-3 β ,16 β -dihydroxy-pregn-5-en-20-one-16-*O*-(2,5-epoxy-2-methoxy-4-methyl-pentanoic acid)-ester $C_{46}H_{72}O_{19}$ (929.08). White powder, $[\alpha]_D^{25} = -46.5^\circ$ ($c = 0.34$, MeOH). Source: MA ZHUANG QIE *Solanum abutiloides* (fruit). Ref: 3496.

**49 (2*R*)-Abyssinone**

$C_{20}H_{30}O_4$ (324.38). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 2431.

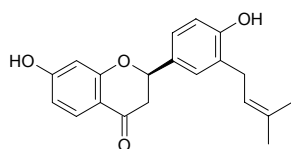
**50 (2*R*)-Abyssinone I**

[77263-07-1] $C_{20}H_{18}O_4$ (322.36). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 25 μ g/mL; *Bacillus subtilis*, MIC = 25 μ g/mL; *Sclerotinia libertiana*, MIC = 12.5 μ g/mL; *Mucor mucedo*, MIC = 50 μ g/mL). Source: A BI XI NI YA CI TONG *Erythrina abyssinica*. Ref: 1551.



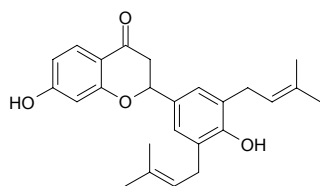
51 (2S)-Abyssinone II

4',7-Dihydroxy-3'-prenylflavanone C₂₀H₂₀O₄ (324.38). **Pharm:** Aromatase inhibitor (*in vitro*, IC₅₀ = 0.4 μmol/L; control Aminoglutethimide, IC₅₀ = 6.4 μmol/L)^[3090]; cytotoxic (aromatase inhibitor, a promising lead as potential cancer chemopreventive agent)^[5038]; antibacterial (*Escherichia coli*, MIA = 10.00 μg, control Chloramphenicol, MIA = 0.001 μg; *Staphylococcus aureus*, MIA = 0.50 μg, Chloramphenicol, MIA = 0.0001 μg; *Bacillus subtilis*, MIA = 0.50 μg, Chloramphenicol, MIA = 0.0001 μg)^[5247]; antifungal (*Candida mycoderma*, MIA = 0.01 μg, control Miconazole, MIA = 0.0001 μg)^[5247]; antioxidant (DPPH scavenger, TLC, MIA = 0.5 μg, IC₅₀ = 630 μg/mL; control Quercetin, MIA < 0.05 μg, IC₅₀ = 7 μg/mL, Gallic acid, MIA < 0.05 μg, IC₅₀ = 4 μg/mL; Ascorbic acid, MIA < 0.10 μg, IC₅₀ = 18 μg/mL)^[5247]. **Source:** GOU SHU *Broussonetia papyrifera*, JI KUAN CI TONG *Erythrina latissima* (stem wood). **Ref:** 3090, 5038, 5247.



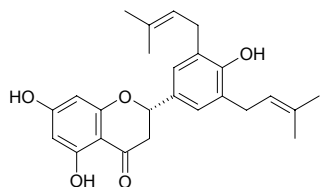
52 Abyssinone IV

C₂₅H₂₈O₄ (392.50). **Pharm:** Antimalarial (*Plasmodium falciparum* D6 strain, IC₅₀ = (5.4 ± 1.5) μg/mL, control Chloroquine, IC₅₀ = (0.009 ± 0.002) μg/mL, Quinine, IC₅₀ = (0.04 ± 0.01) μg/mL; *Plasmodium falciparum* W2 strain, IC₅₀ = (5.9 ± 1.8) μg/mL, Chloroquine, IC₅₀ = (0.08 ± 0.003) μg/mL, Quinine, IC₅₀ = (0.21 ± 0.01) μg/mL)^[3879]; antimalarial (antiplasmodial *in vitro*, *Plasmodium falciparum*, W2 strain, IC₅₀ = (7.7 ± 1.6) μmol/L, control Quinine, IC₅₀ = (0.21 ± 0.01) μmol/L; D6 strain, IC₅₀ = (9.0 ± 2.1) μmol/L, Quinine, IC₅₀ = (0.042 ± 0.002) μmol/L)^[5420]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem bark, root bark). **Ref:** 3879, 5420.



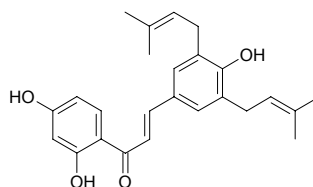
53 Abyssinone V

[77263-11-7] C₂₅H₂₈O₅ (408.50). **Pharm:** Antimalarial (*Plasmodium falciparum* D6 strain, IC₅₀ = (4.9 ± 0.8) μg/mL, control Chloroquine, IC₅₀ = (0.009 ± 0.002) μg/mL, Quinine, IC₅₀ = (0.04 ± 0.01) μg/mL; *Plasmodium falciparum* W2 strain, IC₅₀ = (6.1 ± 1.3) μg/mL, Chloroquine, IC₅₀ = (0.08 ± 0.003) μg/mL, Quinine, IC₅₀ = (0.21 ± 0.01) μg/mL)^[3879]; antibacterial (*Staphylococcus aureus*, *Bacillus subtilis* and *Micrococcus lysodeikticus*)^[658]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica*. **Ref:** 658, 3879.



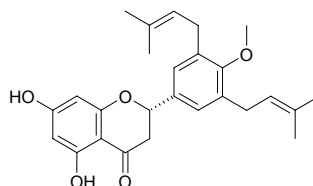
54 Abyssinone VI

[77263-12-8] C₂₅H₂₈O₄ (392.50). **Pharm:** Platelet aggregation inhibitor (rht). **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica*. **Ref:** 658.



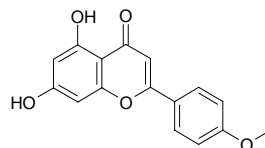
55 Abyssinone V-4'-methyl ether

C₂₆H₃₀O₅ (422.53). **Pharm:** Antimalarial (*Plasmodium falciparum* D6, IC₅₀ = (11.3 ± 2.1) μg/mL, control Chloroquine, IC₅₀ = (0.009 ± 0.002) μg/mL, Quinine, IC₅₀ = (0.04 ± 0.01) μg/mL; *Plasmodium falciparum* W2, IC₅₀ = (11.1 ± 2.4) μg/mL, Chloroquine, IC₅₀ = (0.08 ± 0.003) μg/mL, Quinine, IC₅₀ = (0.21 ± 0.01) μg/mL)^[3879]. **Source:** A BI XI NI YA CI TONG *Erythrina abyssinica* (stem bark), KEN NI YA CI TONG *Erythrina burtii*. **Ref:** 1521, 3879.



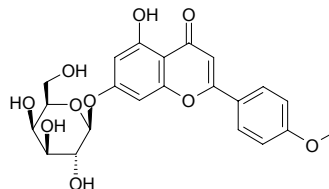
56 Acacetin

5,7-Dihydroxy-4'-methoxyflavone [480-44-4] C₁₆H₁₂O₅ (284.27). Yellow acicular crystals (95% alcohol), mp 263°C, soluble in ethanol. **Pharm:** Anti-inflammatory (mus, orl 25~100mg/kg, reduces formaldehyde edema; mus, orl, 50~100mg/kg, reduces intestinal vascular permeability and brittleness); antispasmodic; similar action with vitamin P (quercetin-like action); LD₅₀ (mus) = 933mg/kg. **Source:** CI HUI HUA *Robinia pseudoacacia*, FENG JIAO *Apis mellifera ligustica*, HUO XIANG *Agastache rugosus*, JIAN QIU LUO MAO RUI HUA *Verbascum lychnites*, JU HUA *Chrysanthemum morifolium* [Syn. *Dendranthema morifolium*], LI ZHI HAO *Ajuga forrestii*, MI MENG HUA *Buddleja officinalis*, YE JU HUA *Chrysanthemum indicum*, *Nuxia sphaerocephala* (leaf). **Ref:** 1, 7, 319, 369, 463, 4419, 5501.



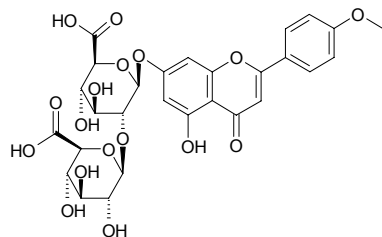
57 Acacetin-7-O-β-D-galactopyranoside

C₂₂H₂₂O₁₀ (446.41). Crystals (MeOH-Me₂CO), mp 259°C (dec), [α]_D²⁵ = -36.6° (c = 0.55, DMF), [α]_D²⁵ = -60° (MeOH). **Source:** YE JU HUA *Chrysanthemum indicum*. **Ref:** 660.

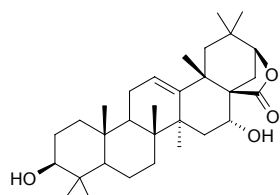


58 Acacetin-7-glucurono-(1→2)-glucuronide

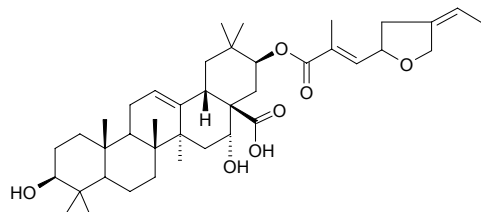
$C_{28}H_{28}O_{17}$ (636.53). mp 191~205°C (dec). Source: CHOU WU TONG *Clerodendron trichotomum*. Ref: 6.

**59 Acacic acid lactone**

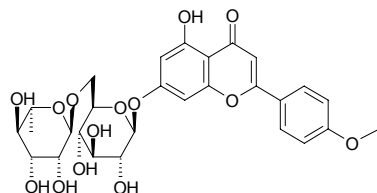
$C_{30}H_{46}O_4$ (470.70). Needles (EtOH), mp 255~257°C, $[\alpha]_D^{25} = +4.2^\circ$ (CHCl₃). Source: HE HUAN PI *Albizia julibrissin*, *Acacia* spp. Ref: 660, 1521.

**60 Acacigenin B**

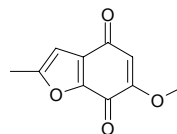
$C_{40}H_{60}O_7$ (652.92). Source: HE HUAN PI *Albizia julibrissin*. Ref: 660.

**61 Acaciin**

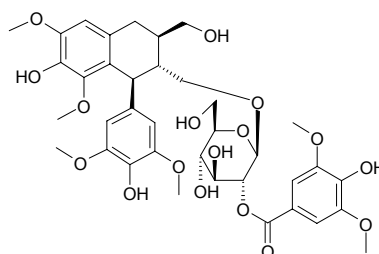
Acacetin 7-*O*-(6''- α -L-rhamnopyranosyl)- β -D-glucopyranoside [480-36-4] $C_{28}H_{32}O_{14}$ (592.56). mp 263°C. Pharm: Phosphodiesterase inhibitor (selectively inhibits phosphodiesterase in cerebrum, cardiac muscle and EAC cell); aldose reductase inhibitor (mus, eye lens, IC₅₀ = 0.75 μ mol/L); antihepatotoxin (1.0g/mL, inhibits the rise of GPT caused by CCl₄ and galactosamine). Source: BEI YE JU *Chrysanthemum boreale*, CI HUAI HUA *Robinia pseudoacacia*, LING *Trapa bispinosa*, HUO XIANG *Agastache rugosus*, MI MENG HUA *Buddleja officinalis*, YE JU HUA *Chrysanthemum indicum* (capitulum: content scope of 14 origins = 0.01%~2.33%, mean content = 0.70%^[5508]), ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. Ref: 2, 6, 369, 388, 660, 1286, 1606, 1607, 4214, 5501, 5508.

**62 Acamelin**

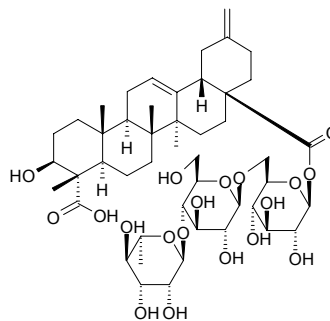
[74161-27-6] $C_{10}H_8O_4$ (192.17). Pharm: Allergen (Effective component in *Acacia melanoxylon* (HEI MU JIN HE HUAN) known to cause contact dermatitis). Source: HEI MU JIN HE HUAN *Acacia melanoxylon*. Ref: 658.

**63 Acanfolioside**

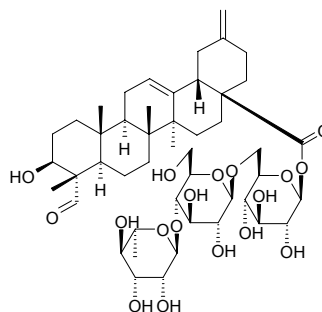
(+)-Lyoniresinol-3 α -[2-(3,5-dimethoxy-4-hydroxy)-benzoyl]-*O*- β -glucopyranoside $C_{37}H_{46}O_{17}$ (762.77). Amorphous powder, $[\alpha]_D^{22} = +28.3^\circ$ ($c = 2.7$, MeOH). Source: LAO SHU LE *Acanthus ilicifolius* (aerial parts). Ref: 5135.

**64 Acanjaposide A**

$C_{47}H_{72}O_{19}$ (941.09). White powder, $[\alpha]_D^{25} = +24.8^\circ$ ($c = 0.60$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus*. Ref: 1989.

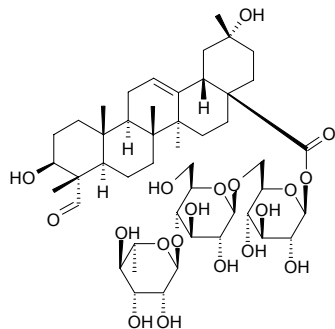
**65 Acanjaposide B**

$C_{47}H_{72}O_{18}$ (925.09). White solid, $[\alpha]_D^{25} = +18.9^\circ$ ($c = 0.82$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus*. Ref: 1989.

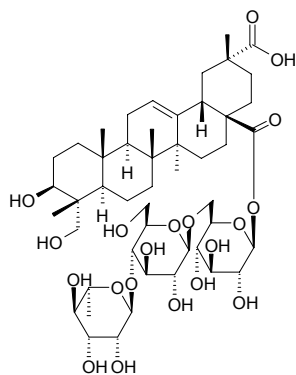


66 Acanjaposide C

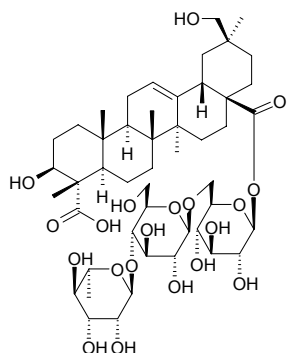
$C_{47}H_{74}O_{19}$ (943.10). White powder, $[\alpha]_D^{25} = +6.5^\circ$ ($c = 0.85$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus*. Ref: 1989.

**67 Acanjaposide D**

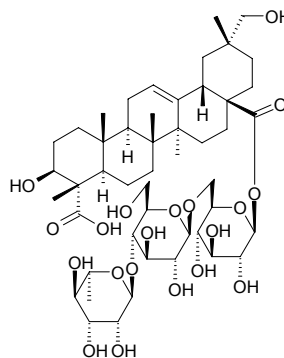
$3\beta,23$ -Dihydroxy-olean-12-ene-28,29-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{20}$ (973.13). White powder, $[\alpha]_D^{25} = -12.0^\circ$ ($c = 0.61$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

**68 Acanjaposide E**

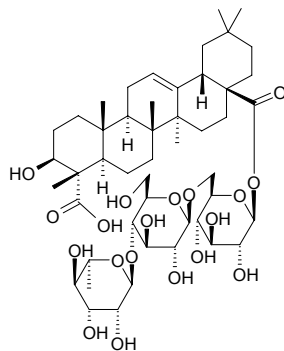
$3\beta,30$ -Dihydroxy-olean-12-en-23,28-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{20}$ (973.13). White powder, $[\alpha]_D^{25} = -3.6^\circ$ ($c = 1.08$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

**69 Acanjaposide F**

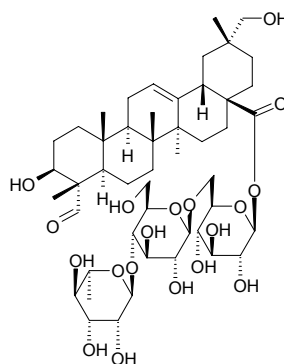
$3\beta,29$ -Hydroxy-olean-12-en-23,28-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{20}$ (973.13). White powder, $[\alpha]_D^{25} = +1.9^\circ$ ($c = 0.60$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

**70 Acanjaposide G**

Gypsogenic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{19}$ (957.13). White powder, $[\alpha]_D^{25} = +1.5^\circ$ ($c = 1.15$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

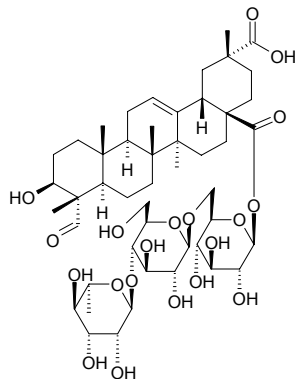
**71 Acanjaposide H**

3β -Hydroxyl-23-oxo-olean-12-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)]- β -*D*-glucopyranoside $C_{48}H_{76}O_{19}$ (957.13). White powder, $[\alpha]_D^{25} = +3.4^\circ$ ($c = 0.54$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

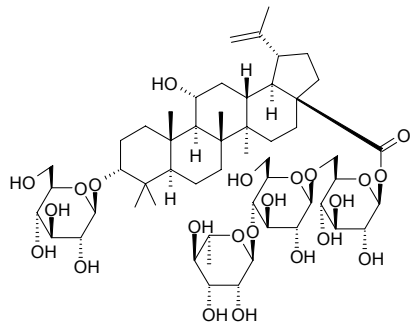


72 Acanjaposide I

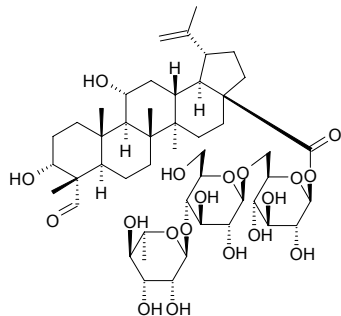
3 β -Hydroxyl-olean-12-en-28,29-dioic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- β -*D*-glucopyranoside C₄₈H₇₄O₂₀ (971.11). White powder, $[\alpha]_D^{25} = +3.6^\circ$ ($c = 0.56$, MeOH). Source: RI BEN WU JIA *Acanthopanax japonicus* (leaf). Ref: 4505.

**73 Acankoreoside C**

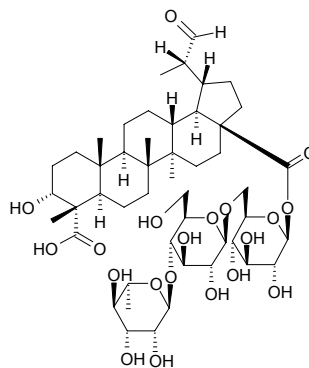
3-*O*- β -*D*-Glucopyranosyl 3 α ,11 α -dihydroxylup-20(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- β -*D*-glucopyranosyl ester C₅₄H₈₈O₂₃ (1105.29). White powder, mp 247~249°C (dil. MeOH), $[\alpha]_D^{26} = -44.6^\circ$ ($c = 0.36$, EtOH). Source: CHAO XIAN WU JIA *Acanthopanax koreanum*. Ref: 1877.

**74 Acankoreoside D**

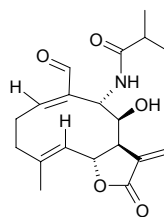
3 α ,11 α -Dihydroxylup-23-al-20(29)-en-28-oic acid 28-*O*- α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- β -*D*-glucopyranosyl ester C₄₈H₇₆O₁₉ (957.13). White powder, mp 222~225°C (dil. MeOH), $[\alpha]_D^{26} = -40.8^\circ$ ($c = 0.37$, EtOH). Source: CHAO XIAN WU JIA *Acanthopanax koreanum*. Ref: 1877.

**75 Acankoreoside E**

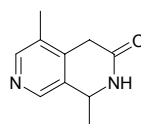
(20*S*)-3 α -Hydroxy-30-oxolupan-23,28-dioic acid 28-*O*-[α -*L*-rhamnopyranosyl-(1 $\rightarrow$ 4)- β -*D*-glucopyranosyl-(1 $\rightarrow$ 6)- β -*D*-glucopyranosyl]-ester C₄₈H₇₆O₂₀ (973.13). White powder, mp 223~227°C, $[\alpha]_D^{26} = -20.4^\circ$ ($c = 0.49$, MeOH). Source: CHAO XIAN WU JIA *Acanthopanax koreanum*. Ref: 2533.

**76 Acanthamolide**

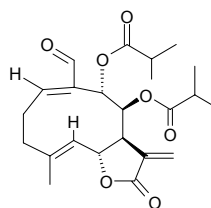
[64852-96-6] C₁₉H₂₅NO₅ (347.41). Colorless trapezoid crystals (benzene-methanol), mp 249~251°C. Pharm: Cytotoxic (KB *in vitro*, ED₅₀ = 2.2 μ g/mL). Source: GUANG CI BAO JU *Acanthospermum glabratum*. Ref: 1, 5, 661.

**77 Acanthifoline**

C₁₀H₁₂N₂O (176.22). Source: LAO SHU LE *Acanthus ilicifolius*. Ref: 2080.

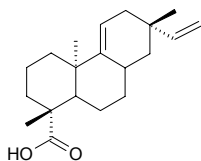
**78 Acanthoglabrolide**

[75744-66-0] C₂₃H₃₀O₇ (418.49). Pharm: Cytotoxic (KB *in vitro*, ED₅₀ = 3.1 μ g/mL). Source: GUANG CI BAO JU *Acanthospermum glabratum*. Ref: 1, 5.

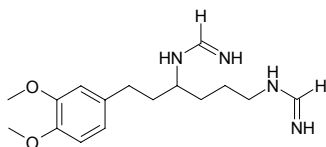


79 Acanthoic acid

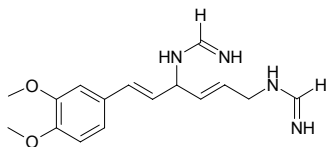
$C_{20}H_{30}O_2$ (302.46). Amorphous powder, mp 135~136°C, $[\alpha]_D^{20} = -55.7^\circ$ ($c = 1.0$, MeOH). **Pharm:** IL-8 secretion inhibitor (TNF- α -stimulated hmn colon adenocarcinoma cell line HT29, 1, 10 and 100 μ mol/L, InRt = 23.9%, 37.1% and 72.1%, respectively); TNF- α secretion inhibitor (trypsin-stimulated hmn leukemic mast cell line HMC-1, 1, 10 and 100 μ mol/L, InRt = 3.1%, 65.0% and 74.1%, respectively). **Source:** CHAO XIAN WU JIA *Acanthopanax koreanum* (root). **Ref:** 4346.

**80 Acanthoidine**

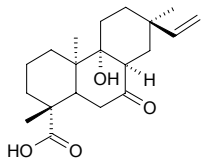
$C_{16}H_{26}N_4O_2$ (306.41). **Pharm:** Antihypertensive. **Source:** JIE MAO FEI LIAN *Carduus acanthoides*, FEI LIAN *Carduus crispus*. **Ref:** 6, 658.

**81 Acanthoine**

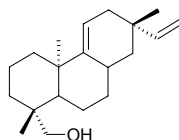
$C_{16}H_{22}N_4O_2$ (302.38). **Source:** FEI LIAN *Carduus crispus*. **Ref:** 6.

**82 Acanthokoreoic acid A**

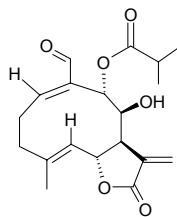
$C_{20}H_{30}O_4$ (334.46). White powder, mp 60~62°C, $[\alpha]_D^{20} = +3.5^\circ$ ($c = 1.0$, MeOH). **Pharm:** IL-8 secretion inhibitor (TNF- α -stimulated hmn colon adenocarcinoma cell line HT29, 1, 10 and 100 μ mol/L, InRt = 12.7%, 18.6% and 3.9%, respectively)^[4346]; TNF- α secretion inhibitor (trypsin-stimulated hmn leukemic mast cell line HMC-1, 1, 10 and 100 μ mol/L, InRt = 0.6%, 2.1% and 9.2%, respectively)^[4346]. **Source:** CHAO XIAN WU JIA *Acanthopanax koreanum* (root). **Ref:** 4346.

**83 Acanthol**

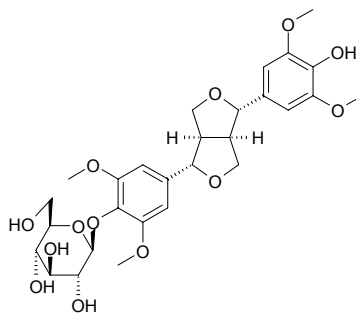
$C_{20}H_{32}O$ (288.48). White powder, mp 73~74°C, $[\alpha]_D^{20} = -14.9^\circ$ ($c = 0.2$, MeOH). **Pharm:** IL-8 secretion inhibitor (TNF- α -stimulated hmn colon adenocarcinoma cell line HT29, 1 μ mol/L, 10 μ mol/L and 100 μ mol/L, InRt = 0.4%, 0.6% and 1.1%, respectively); TNF- α secretion inhibitor (trypsin-stimulated hmn leukemic mast cell line HMC-1, 1 μ mol/L, 10 μ mol/L and 100 μ mol/L, InRt = 0.9%, 12.1% and 18.2%, respectively). **Source:** CHAO XIAN WU JIA *Acanthopanax koreanum* (root). **Ref:** 4346.

**84 Acantholide**

[72548-16-4] $C_{19}H_{24}O_6$ (348.40). Colorless acicular crystals, mp 208°C. **Pharm:** Cytotoxic (KB *in vitro*, $ED_{50} = 2.2\mu$ g/mL). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 1, 5.

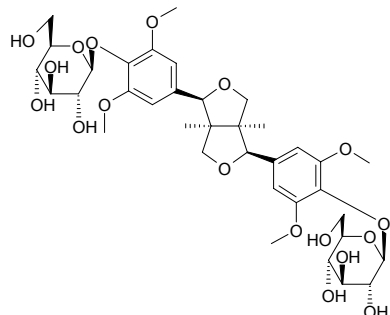
**85 Acanthoside B**

Syringaresinol-4'-*O*- β -D-glucopyranoside; (+)-Syringaresinol *O*- β -D-glucopyranoside [7374-79-0] $C_{28}H_{36}O_{13}$ (580.59). Amorphous powder, mp 150°C, $[\alpha]_D^{26} = -23.8^\circ$ ($c = 0.08$, MeOH). **Pharm:** Immunomodulator; aldose reductase inhibitor ($IC_{50} > 100\mu$ mol/L, 100 μ mol/L InRt = 38%, control Epalrestat, $IC_{50} = 0.072\mu$ mol/L). **Source:** DU ZHONG *Eucommia ulmoides*, HOU PO *Magnolia officinalis*, HUANG HUA REN *Sida acuta*, HUO YAN HUA *Phlogacanthus curviflorus* (root: yield = 0.0011%dw), JIA HUI SE JIU LI XIANG PO PO NA *Veronica thymoides* ssp. *pseudocinerea*, LAN SHAI PIAO *Sambucus sieboldiana* (leaf), SHUI MU XUE LIAN HUA *Saussurea medusa* (whole plant), WU GENG WU JIA PI *Acanthopanax sessiliflorus*, XI JING SHI HU *Dendrobium moniliforme* (stem: yield = 0.002%dw^[4717]), XIAO LONG YE KUO BAO JU *Baccharis dracunculifolia* (aerial parts). **Ref:** 2, 6, 540, 658, 660, 3846, 4184, 4192, 4530, 4717, 4799.

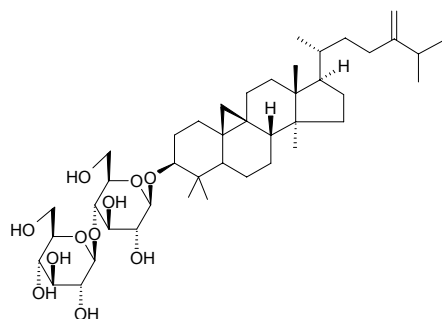


86 Acanthoside D

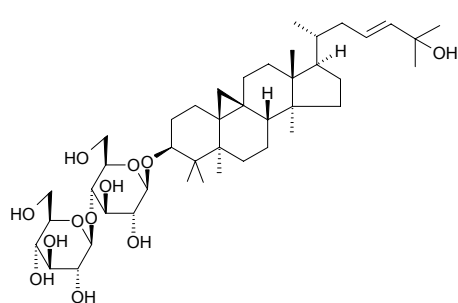
Eleutheroside E [96038-87-8] $C_{34}H_{46}O_{18}$ (742.73). Colorless acicular crystals (dil. methanol), mp 245~247°C, $[\alpha]_D = -33^\circ$; mp 235°C, $[\alpha]_D = 0^\circ$ ($c = 5.0$, 50% methanol); mp 265~272°C, $[\alpha]_D^{20} = -5^\circ$ ($c = 0.5$, methanol). **Pharm:** Sedative; anti-stress; prevents atrophy of prostate and spermary. **Source:** WU GENG WU JIA PI *Acanthopanax sessiliflorus*. **Ref:** 6, 235, 658, 660, 661.

**87 Acanthoside K₂**

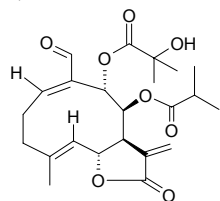
$C_{43}H_{72}O_{11}$ (765.05). **Source:** WU GENG WU JIA PI *Acanthopanax sessiliflorus* (root). **Ref:** 660.

**88 Acanthoside K₃**

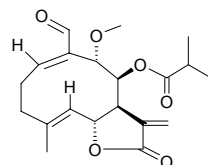
$C_{42}H_{70}O_{12}$ (767.02). **Source:** WU GENG WU JIA PI *Acanthopanax sessiliflorus* (root). **Ref:** 660.

**89 Acanthospermal A**

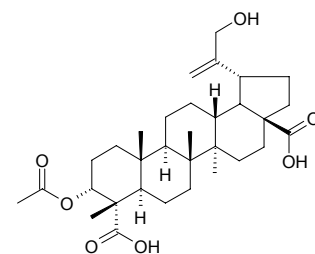
[56689-33-9] $C_{23}H_{30}O_8$ (434.49). **Pharm:** Cytotoxic (KB *in vitro*, $ED_{50} = 211\mu g/mL$). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 1, 5.

**90 Acanthospermolide**

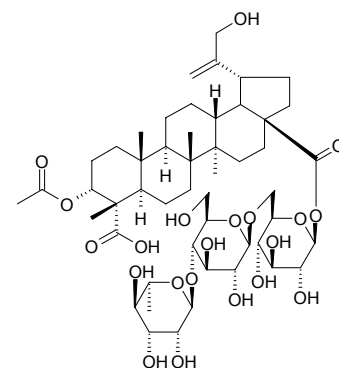
[75744-64-8] $C_{20}H_{26}O_6$ (362.43). mp 154°C. **Pharm:** Cytotoxic (KB *in vitro*, $ED_{50} = 0.54\mu g/mL$, P_{388} *in vivo*, $ED_{50} = 12.5mg/kg$). **Source:** GUANG CI BAO JU *Acanthospermum glabratum*. **Ref:** 1, 5.

**91 Acantrifoside A**

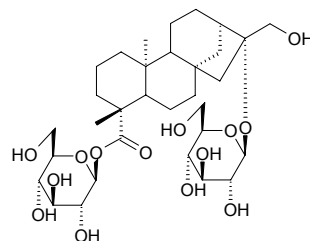
3 α -Acetoxy-30-hydroxylup-20(29)-ene-23,28-dioic Acid $C_{32}H_{48}O_7$ (544.74). White crystals, mp 278~279°C, $[\alpha]_D^{25} = -12.9^\circ$ ($c = 0.51$, MeOH). **Source:** CI SAN JIA *Acanthopanax trifoliatum* (leaf). **Ref:** 4412.

**92 Acantrifoside C**

3 α -Acetoxy-30-hydroxylup-20(29)-ene-23,28-dioic Acid 28-O- α -L-rhamno-pyranosyl-(1 $\rightarrow$ 4)- β -D-glucopyranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranosyl ester $C_{50}H_{77}O_{21}$ (1015.17). White powder, mp 217~218°C, $[\alpha]_D^{25} = -19.5^\circ$ ($c = 0.51$, MeOH). **Source:** CI SAN JIA *Acanthopanax trifoliatum* (leaf). **Ref:** 4412.

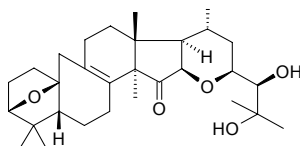
**93 Acantrifoside D**

16 α ,17-Dihydroxy-*ent*-kauran-19-oic acid 16-O- β -D-glucopyranoside 19-O- β -D-glucopyranosyl ester $C_{32}H_{52}O_{14}$ (660.76). White powder, mp 167~170°C, $[\alpha]_D^{25} = -45^\circ$ ($c = 0.50$, MeOH). **Source:** CI SAN JIA *Acanthopanax trifoliatum* (stem bark). **Ref:** 4957.

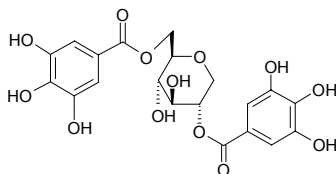


94 Acerionol

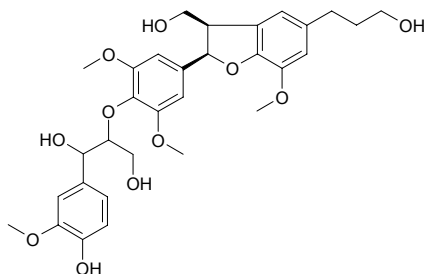
[59665-59-7] $C_{30}H_{46}O_5$ (486.70). mp 248~249.5°C. Source: SAN MIAN DAO *Cimicifuga acerina*. Ref: 1521.

**95 Aceritannin**

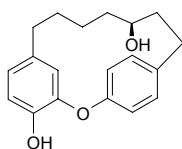
[76746-56-0] $C_{20}H_{20}O_{13}$ (468.37). Source: CHA TIAO QI *Acer ginnala*. Ref: 1521.

**96 Acernikol**

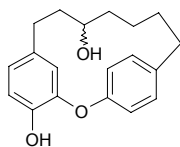
$C_{31}H_{38}O_{11}$ (586.64). White powder, $[\alpha]_D^{22} = +4.7^\circ$ ($c = 0.20$, EtOH). Source: MAO GUO QI *Acer nikoense* (stem bark: yield = 0.0020%). Ref: 4304.

**97 Acerogenin A**

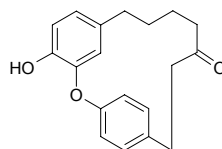
$C_{19}H_{22}O_3$ (298.39). Pharm: β -Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -Hexosaminidase, $100\mu\text{mol/L}$, $\text{InRt} = (40.0 \pm 1.1)\%$, $p < 0.01$). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**98 Acerogenin B**

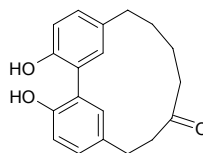
$C_{19}H_{22}O_3$ (298.39). Pharm: β -Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -hexosaminidase, $\text{IC}_{50} = 50\mu\text{mol/L}$, control antiallergic Tranilast, $\text{IC}_{50} = 490\mu\text{mol/L}$, Ketotifen fumarate, $\text{IC}_{50} = 220\mu\text{mol/L}$). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**99 Acerogenin C**

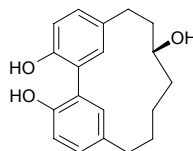
$C_{19}H_{20}O_3$ (296.37). Pharm: Antibacterial (disk susceptibility tests, standard NCCLS method, $50\mu\text{g/disk}$ (control $30\mu\text{g/disk}$), gram-positive bacteria: *Staphylococcus aureus*, 9mm/diameter, positive control Kanamycin, 10mm/diameter; *Bacillus subtilis*, 9mm/diameter, positive control Kanamycin, 18mm/diameter; *Bacillus sphaericus*, 8mm/diameter, positive control Kanamycin, 20mm/diameter; gram-negative bacteria: *Chromobacterium violaceum*, 9mm/diameter, positive control Kanamycin, 17mm/diameter; *Klebsiella aerogenes*, 10mm/diameter, positive control Kanamycin, 15mm/diameter; *Pseudomonas aeruginosa*, 9mm/diameter, positive control Kanamycin, 27mm/diameter; *Pseudomonas fluorescens*, 7mm/diameter, positive control Kanamycin, 15mm/diameter). Source: TUO YUAN YE RU XIANG SHU *Boswellia ovalifoliolata* (stem). Ref: 4380.

**100 Acerogenin E**

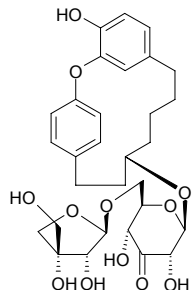
$C_{19}H_{20}O_3$ (296.37). Pharm: β -Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -Hexosaminidase, $100\mu\text{mol/L}$, $\text{InRt} = (47.9 \pm 1.1)\%$, $p < 0.01$). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**101 Acerogenin K**

$C_{19}H_{22}O_3$ (298.39). Pharm: β -Hexosaminidase inhibitor (RBL-2H3 cells, inhibits release of β -hexosaminidase, $\text{IC}_{50} = 33\mu\text{mol/L}$, control antiallergic Tranilast, $\text{IC}_{50} = 490\mu\text{mol/L}$, Ketotifen fumarate, $\text{IC}_{50} = 220\mu\text{mol/L}$). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

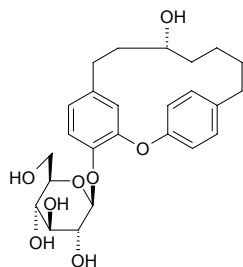
**102 Aceroketoside**

$C_{30}H_{38}O_{12}$ (590.63). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

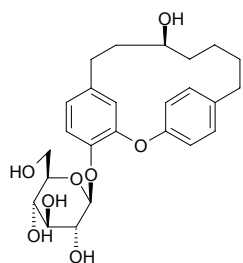


103 Aceroside B₁

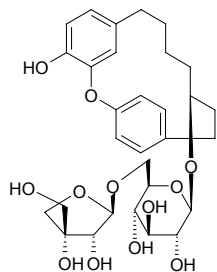
$C_{25}H_{32}O_8$ (460.53). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**104 Aceroside B₂**

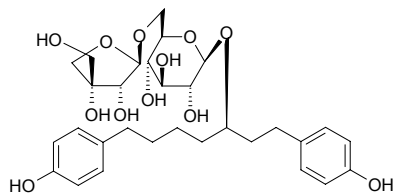
$C_{25}H_{32}O_8$ (460.53). Source: MAO GUO QI *Acer nikoense* (stem bark). Ref: 4304.

**105 Aceroside III**

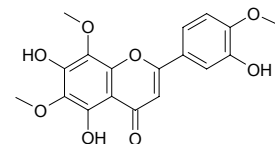
$C_{30}H_{40}O_{12}$ (592.65). Source: MAO GUO QI *Acer nikoense* (stem bark: yield = 0.0075%). Ref: 4304.

**106 Aceroside VIII**

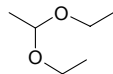
$C_{30}H_{42}O_{12}$ (594.66). Source: MAO GUO QI *Acer nikoense* (stem bark: yield = 0.0038%). Ref: 4304.

**107 Acerosin**

$C_{18}H_{16}O_8$ (360.32). Pharm: Spermicidal (causes breakdown of dog sperm during last period of formation). Source: LIN DI XIANG RI KUI *Helianthus strumosus*, HUANG JING YE *Vitex negundo*, *Gardenia* sp. Ref: 658.

**108 Acetal**

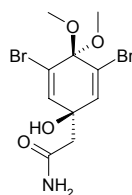
1,1-Diethoxyethane [105-57-7] $C_6H_{14}O_2$ (118.18). bp 103.2°C/761 mmHg. Source: CU vinegar. Ref: 6.

**109 Acetamide**

Acetic acid amide [60-35-5] C_2H_5NO (59.07). mp 82~83°C. Source: XIANG XUN *Lentinus edodes*. Ref: 6.

**110 Acetamide-3,5-dibromo-1-hydroxy-4,4-dimethoxy-2,5-cyclohexadiene**

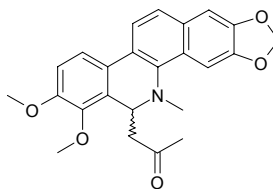
$C_{10}H_{13}Br_2NO_4$ (371.03). White granular crystals, mp 191~192°C. Source: *Pseudoceratina purpurea* (from the South China Sea). Ref: 4888.

**111 Acetoin**

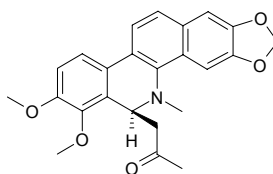
3-Hydroxy-2-butanone [513-86-0] $C_4H_8O_2$ (88.11). mp (±) -72°C, bp (+) 142~144°C, (-) 143°C, (±) 148°C. Source: CU vinegar. Ref: 6.

**112 (±)-6-Acetyldihydrochelerythrine**

$C_{24}H_{23}NO_5$ (405.45). Colorless prisms, mp 194~197°C, $[\alpha]_D^{24} = 0^\circ$ ($c = 2.14$, $CHCl_3$). Pharm: Anti-HIV (H9 lymphocytes, $EC_{50} = 1.77\mu g/mL$, TI (Therapeutic Index) = 14.6; control AZT, $IC_{50} = 500\mu g/mL$, $EC_{50} = 0.0317\mu g/mL$, TI = 15,800). Source: JI YING SU *Argemone mexicana*. Ref: 5364.

**113 6-Acetyldihydrochelerythrine**

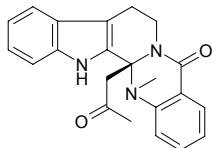
$C_{24}H_{23}NO_5$ (405.45). White needles, mp 192~194°C, $[\alpha]_D^{23} = -135^\circ$ ($c = 0.1$, $CHCl_3$). Pharm: Antioxidant (TLC-based assay, DPPH scavenger, MIQ = 10μg; control Quercetin, MIQ = 1μg). Source: *Fagara xanthoxyloides*. Ref: 5385.



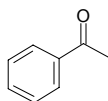
114 Acetonylevodiamine

$C_{22}H_{21}N_3O_2$ (359.43). Colorless rhombus lamellar crystals, mp 163~164°C.

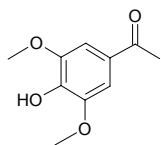
Source: WU ZHU YU *Evodia rutaecarpa*. Ref: 2482.

**115 Acetophenone**

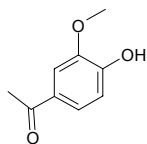
Phenylethanone [98-86-2] C_8H_8O . (120.15). Pharm: Hypnotic. Source: ZHI YANG *Populus balsamifera*, YI ZHU QIAN MA *Urtica dioica*, SAN QI *Panax pseudo-ginseng* var. *notoginseng* [Syn. *Panax notoginseng*]. Ref: 2, 658.

**116 Acetosyringone**

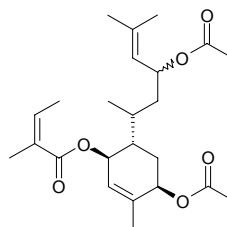
[2478-38-8] $C_{10}H_{12}O_4$ (196.20). Pharm: Causes plant to be infected by *Agrobacterium tumefaciens*. Source: YAN CAO *Nicotiana tabacum*. Ref: 658.

**117 Acetovanillone**

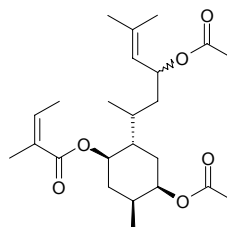
1-(4-Hydroxy-3-methoxyphenyl)-ethanone [498-02-2] $C_9H_{10}O_3$ (166.18). Tiny acicular crystals (water), mp 115°C, bp 295~300°C. Pharm: Choleric (rbt); uterine stimulant (rat); inhibits contraction of heart (frog heart); anti-inflammatory inactive (no significant inhibitory effects on mast cells and neutrophils stimulated with various inducers; no significant inhibitory effects on TNF- α formation from RAW264.7 stimulated with LPS and N9 microglial cells stimulated with LPS/IFN- γ)^[3054]. Source: BAI WEI *Cynanchum atratum* (root)^[3054], DIAN DI MEI YE CHA YE HUA *Apocynum androsaemifolium*, HU HUANG LIAN *Picrorhiza kurroa*, JIA ZHU TAO MA *Apocynum cannabinum*, MIAN HUA GEN *Gossypium herbaceum*, *Iris* sp. Ref: 6, 658, 661, 3054.

**118 (1R*,3S*,4R*,6S*)-9-(Acetoxy)-4-acetoxy-1-[(2Z)-2-methylbut-2-enyloxy]bisabol-2(3),10(11)-diene**

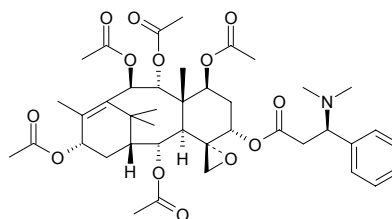
$C_{24}H_{36}O_6$ (420.55). Pharm: Leukotriene biosynthesis Inhibitor (*in vitro*, IC_{50} = 10.1 μ mol/L, $p < 0.05$; control Zileuton, IC_{50} = 10.4 μ mol/L, $p < 0.05$)^[5037], anti-Inflammatory (anti-oedema, control oedema = (7.8 $\pm$ 0.3)mg, 100 μ g/cm², oedema = (5.2 $\pm$ 0.4)mg, $p < 0.05$, reduction = 33%, Indomethacin oedema = (3.4 $\pm$ 0.3)mg, $p < 0.05$, reduction = 56%)^[4985], effect on leukocytes infiltration (control E.A. at 6h = (24.6 $\pm$ 1.6)U/(mL·min), 100 μ g/cm², E.A. at 6h = (22.8 $\pm$ 3.3)U/(mL·min), Reduce = 7%)^[4985]. Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 4985, 5037.

**119 (1R*,3S*,4R*,6S*)-9-(Acetoxy)-4-acetoxy-1-[(2Z)-2-methylbut-2-enyloxy]bisabol-10(11)-ene**

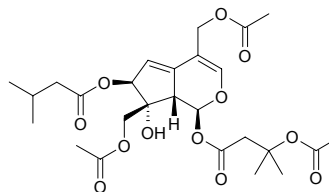
$C_{24}H_{38}O_6$ (422.57). Pharm: Leukotriene biosynthesis Inhibitor (*in vitro*, IC_{50} = 7.7 μ mol/L, $p < 0.05$; control Zileuton, IC_{50} = 10.4 μ mol/L, $p < 0.05$)^[5037], anti-Inflammatory (anti-oedema, control oedema = (7.8 $\pm$ 0.3)mg, 100 μ g/cm², oedema = (4.2 $\pm$ 0.4)mg, $p < 0.05$, reduction = 46%, Indomethacin oedema = (3.4 $\pm$ 0.3)mg, $p < 0.05$, reduction = 56%)^[4985], effect on leukocytes infiltration (control E.A. at 6h = (24.6 $\pm$ 1.6)U/(mL·min), 100 μ g/cm², E.A. at 6h = (19.4 $\pm$ 0.6)U/(mL·min), Reduce = 25%, $p < 0.05$)^[4985]. Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 4985, 5037.

**120 7 β -Acetoxy-9-acetylspicatinine**

$C_{41}H_{55}NO_{13}$ (769.89). Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

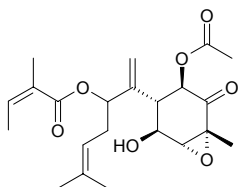
**121 10-Acetoxy-1-acevaltrate hydrin**

$C_{26}H_{36}O_{12}$ (540.57). Oil, $[\alpha]_D^{24}$ = +194.6° (c = 0.01, MeOH). Source: ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. (rhizome and root: yield = 0.000007%dw)^[4672]. Ref: 4672.



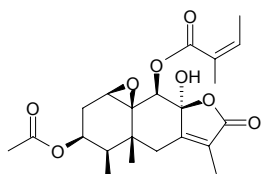
122 (1R,3R,4R,5S,6S)-1-Acetoxy-8-angeloyloxy-3,4-epoxy-5-hydroxy-bisabola-7(14),10-dien-2-one

$C_{22}H_{30}O_7$ (406.48). Colorless oil, $[\alpha]_D^{23} = -32.0^\circ$ ($c = 0.4$, $CHCl_3$). Source: KUAN DONG HUA *Tussilago farfara* (flower bud). Ref: 3531.



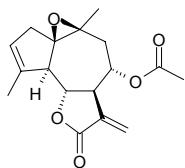
123 3β-Acetoxy-9β-angeloyloxy-1β,10β-epoxy-8α-hydroxyeremophil-7(11)-en-8β(12)-olide

$C_{22}H_{28}O_8$ (420.46). White columns (MeOH), mp 212~214°C, $[\alpha]_D^{25} = -71^\circ$ ($c = 0.41$, acetone). Pharm: Antibacterial (Bacillus subtilis, 100μg/mL, IZD = 13~15mm, moderate, control Chloromycetin, IZD = 16~20mm; Escherichia coli, 100μg/mL, IZD = 13~15mm, Chloromycetin, IZD = 16~20mm). Source: JIA TUO WU *Ligulariopsis shichuana* (whole herb: yield = 0.0030%dw). Ref: 4627.



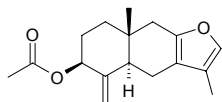
124 8α-Acetoxyarglabin

$C_{17}H_{20}O_5$ (304.35). Source: YI KUA *Artemisia myriantha* (aerial parts). Ref: 4618.



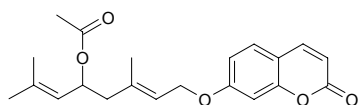
125 3β-Acetoxy-atractylon

$C_{17}H_{22}O_3$ (274.36). Source: CANG ZHU *Atractylodes lancea*. Ref: 2.



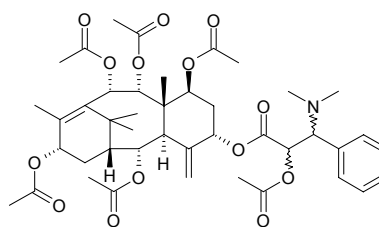
126 Acetoxyaauraptene

$C_{21}H_{24}O_5$ (356.42). Pharm: Antibacterial; smooth muscle relaxant; anticoagulant; photosensitive agent; ichthyotoxin; toxin. Source: *Zanthoxylum* sp. Ref: 2176.



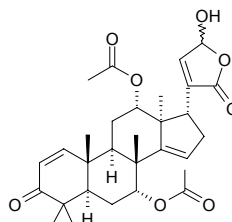
127 2α-Acetoxyaustrospicatine

[119777-81-0] $C_{43}H_{57}NO_{14}$ (811.93). Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. Ref: 662.



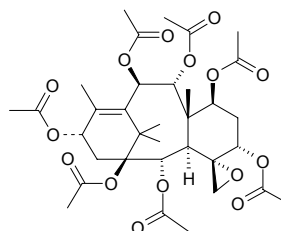
128 12α-Acetoxyazadironolide

$C_{30}H_{38}O_8$ (526.63). White crystalline, mp 97~99°C. Source: XIAO YE DU LIAN *Turraea parvifolia*. Ref: 2052.



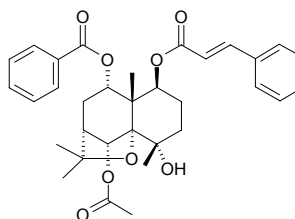
129 1-Acetoxy-baccatin I

$C_{34}H_{46}O_{15}$ (694.74). Colorless quadratus crystal. Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 2166.



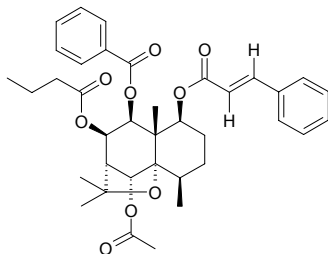
130 5α-Acetoxy-1β-benzoyl-8α-cinnamoyl-4α-hydroxy-dihydroagaro-furan

$C_{33}H_{38}O_8$ (562.67). Amorphous powder, $[\alpha]_D^{25} = +109.4^\circ$ ($c = 1.3$, MeOH). Source: NAN RI BEN LEI GONG TENG *Tripterygium doianum*. Ref: 1916.



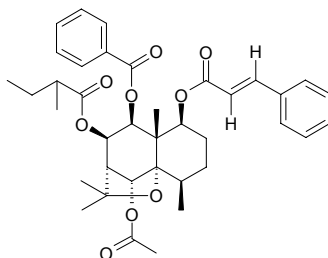
131 6 α -Acetoxy-9 β -benzoyloxy-1 β -cinnamoyloxy-8 β -butanoyloxy- β -dihydroagarofuran

C₃₇H₄₄O₉ (632.76). White powder (EtOAc), mp 181~183°C, [α]_D²⁰ = -7.0° (c = 0.75, MeOH). **Pharm:** NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity). **Source:** NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 2584.



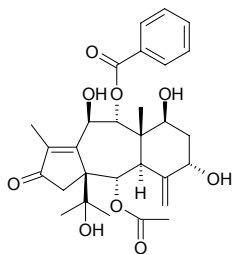
132 6 α -Acetoxy-9 β -benzoyloxy-1 β -cinnamoyloxy-8 β -(2-methylbutanoyloxy)- β -dihydroagarofuran

C₃₈H₄₆O₉ (646.78). White powder (EtOAc), mp 231~233°C, [α]_D²⁰ = -8.9° (c = 0.40, MeOH). **Pharm:** NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity). **Source:** NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. **Ref:** 2584.



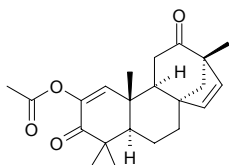
133 2 α -Acetoxy-9 α -benzoyloxy-5 α ,7 β ,10 β ,15-tetrahydroxy-11(15→1)-abeotaxa-4(20),11-dien-13-one

C₂₉H₃₆O₉ (528.60). Colorless amorphous solid, [α]_D²⁵ = +31.6° (c = 0.32, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). **Ref:** 3481.



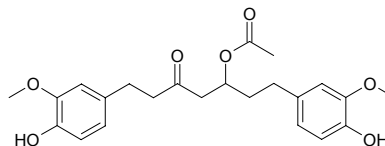
134 2-Acetoxy-1,15-beyeradiene-3,12-dione

C₂₂H₂₈O₄ (356.47). Colorless needles (MeOH), mp 136~138°C, [α]_D²⁵ = -294.2° (c = 2.1, CHCl₃). **Source:** HAI QI *Excoecaria agallocha* (root: yield = 0.0015%dw). **Ref:** 4613.



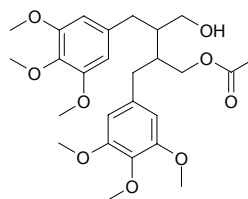
135 (5S)-5-Acetoxy-1,7-bis(4-hydroxy-3-methoxyphenyl)heptan-3-one

C₂₃H₂₈O₇ (416.48). Colorless oil, [α]_D²⁴ = +3.0° (c = 0.60, CHCl₃). **Source:** SHENG JIANG *Zingiber officinale*. **Ref:** 3803.



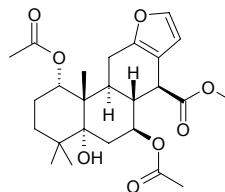
136 4-Acetoxy-2,3-bis(3,4,5-trimethoxybenzyl)-1-butanol

C₂₆H₃₆O₉ (492.57). **Pharm:** Antineoplastic; cathartic; sthenic; pesticide; ichthyotoxin; muscle relaxant. **Source:** *Zanthoxylum* sp. **Ref:** 2176.



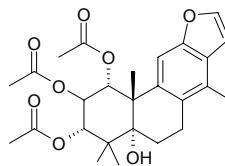
137 7-Acetoxybonducellpin C

C₂₅H₃₄O₈ (462.54). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel). **Ref:** 4434.



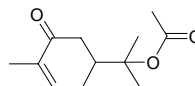
138 2-Acetoxycaesaldekarin E

C₂₆H₃₂O₈ (472.54). **Source:** CI GUO SU MU *Caesalpinia crista* (seed kernel). **Ref:** 4434.



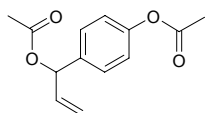
139 D-8-Acetoxyarvotanacetone

C₁₂H₁₈O₃ (210.28). mp 45.3~46.2°C, [α]_D²⁰ = +32.2° (c = 10, CHCl₃). **Pharm:** Anthelmintic (with anaphylactic action to skin). **Source:** BO HE *Mentha haplocalyx* [Syn. *Mentha canadenensis*; *Mentha arvensis* var. *haplocalyx*; *Mentha arvensis*]. **Ref:** 1, 660.

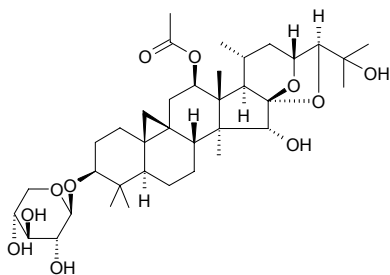


140 1'-Acetoxychavicol acetate

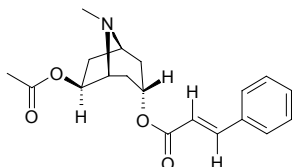
[108147-21-3] $C_{13}H_{14}O_4$ (234.25). $[\alpha]_D^{20} = -80^\circ$ ($c = 1$, alcohol). Pharm: Antineoplastic (S_{180} , 10mg/(kg·d), growth rate = 1%); antifungal; antiulcerative (rat, ip, gastric ulcer, 2mg/kg, InRt = 20%, 5mg/kg, InRt = 77%); toxin. Source: DA LIANG JIANG *Alpinia galanga*. Ref: 1, 995, 1134.

**141 12β-Acetoxycimigenol-3-O-β-D-xylopyranoside**

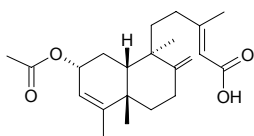
$C_{37}H_{58}O_{11}$ (678.87). White powder, mp 185~187°C, $[\alpha]_D^{24} = -41^\circ$ ($c = 0.55$, MeOH:CHCl₃ = 1:1). Source: SHENG MA *Cimicifuga foetida* (rhizome). Ref: 4573.

**142 trans-6β-Acetoxy-3α-(cinnamoyloxy)tropane**

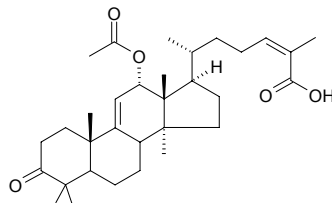
$C_{19}H_{23}NO_4$ (329.40). Source: XI LAN GU KE *Erythroxylum zeylanicum* (twig and leaf). Ref: 3919.

**143 2-α-Acetoxy-cis-cleroda-3,13(Z),8(17)-trien-15-oic acid**

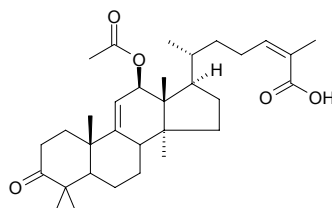
$C_{22}H_{32}O_4$ (360.50). Colorless oil, $[\alpha]_D^{25} = -32.5^\circ$ ($c = 0.6$, CHCl₃). Pharm: Antibacterial (*Bacillus cereus*, MIC = 1.25μg, control Tetracyclin, MIC = 0.25μg; *Bacillus coagulans*, MIC = 2.5μg, Tetracyclin, MIC = 0.25μg; *Bacillus subtilis*, MIC = 1.25μg, Tetracyclin, MIC = 0.25μg; *Micrococcus luteus*, MIC = 1.25μg, Tetracyclin, MIC = 0.25μg; *Staphylococcus aureus*, MIC = 1.25μg, Tetracyclin, MIC = 5.0μg). Source: *Haplopappus foliosus*. Ref: 5419.

**144 12α-Acetoxycoccinic acid**

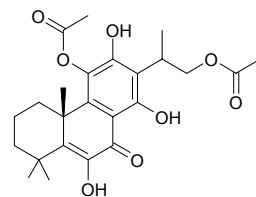
$C_{32}H_{48}O_5$ (512.74). Pharm: Antineoplastic^[2523], anti-HIV^[2523]. Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. Ref: 2436, 2523.

**145 12β-Acetoxycoccinic acid**

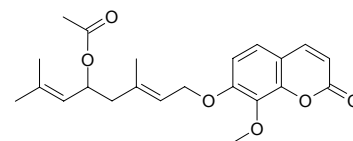
$C_{32}H_{48}O_5$ (512.74). Pharm: Antineoplastic^[2523], anti-HIV^[2523]. Source: LENG FAN TUAN *Kadsura coccinea* [syn. *Kadsura chenensis*; *Kadsura hainanensis*], YI XING NAN WU WEI ZI *Kadsura heteroclita* [Syn. *Uvaria heteroclita*]. Ref: 2436, 2523.

**146 16-Acetoxycoleon U 11-acetate**

11,16-Diacetoxy-6,12,14-trihydroxyabieta-5,8,11,13-tetraen-7-one $C_{24}H_{30}O_8$ (446.5). Yellow amorphous powder, $[\alpha]_D^{25.9} = +32.3^\circ$ ($c = 0.87$, CHCl₃). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00023%dw). Ref: 4625.

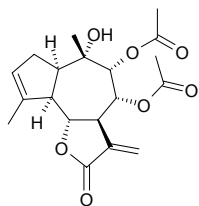
**147 (-)-Acetoxycollinin**

[148777-25-7] $C_{22}H_{26}O_6$ (386.45). Pharm: Platelet aggregation inhibitor. Source: QING JIAO *Zanthoxylum schinifolium*, QUAN YUAN YE HUA *JIAO Zanthoxylum integrifolium*. Ref: 1521, 2176.

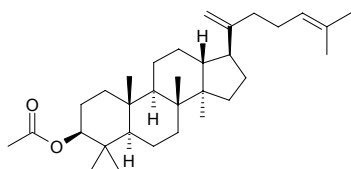


148 9 α -Acetoxycumambrin A

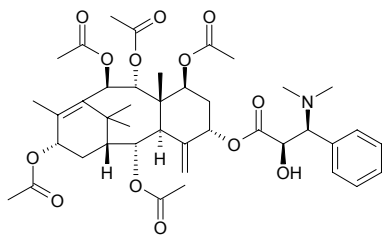
C₁₉H₂₄O₇ (364.40). Source: *Anthemis carpatica* (aerial parts). Ref: 3974.

**149 3 β -Acetoxy-dammara-20,24-diene**

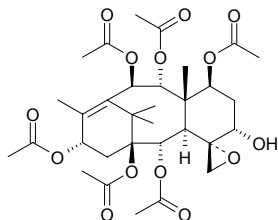
Dammardienyl acetate C₃₂H₅₂O₂ (468.77). Glassy amorphous solid, mp 148~149°C, [α]_D²⁰ = +11°C (*c* = 0.08, CHCl₃). Source: PEI LAN *Eupatorium fortunei*, TU MU XIANG *Inula helenium*, XIAO SHE JU GEN *Microglossa pyrifolia*, *Santolina oblongifolia*. Ref: 6, 5374.

**150 2 α -Acetoxy-2' β -deacetylaustrospicatin**

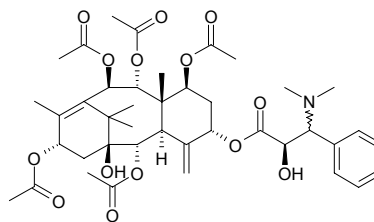
[119777-82-1] C₄₁H₅₅NO₁₃ (769.89). Pharm: Cytotoxic (A549, ED₅₀ = (28.3 $\pm$ 3.8) μ mol/L)^[5225]. Source: AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*, XI MA LA YA HONG DOU SHAN *Taxus wallichiana* (needle). Ref: 662, 5225.

**151 1 β -Acetoxy-5 α -deacetyl-baccatin I**

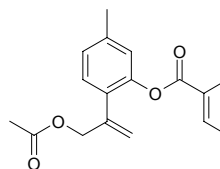
C₃₂H₄₄O₁₄ (652.70). mp 240~241°C. Source: MEI LI HONG DOU SHAN *Taxus mairei*. Ref: 662.

**152 2 α -Acetoxy-2'-deacetyl-1-hydroxyaustrospicatin**

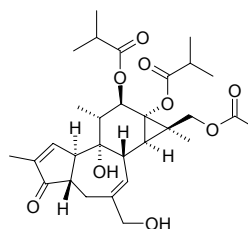
C₄₁H₅₅NO₁₄ (785.89). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**153 9-Acetoxy-8,10-dehydrothymol 3-O-tiglate**

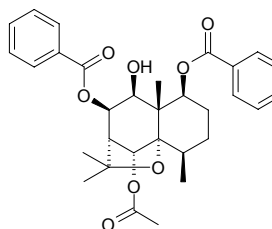
C₁₇H₂₀O₄ (288.35). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**154 17-Acetoxy-4-deoxyphorbol 12,13-bis(isobutyrate)**

[250258-03-8] C₃₀H₄₂O₉ (546.66). Oil, [α]_D = +70° (*c* = 1.2, CHCl₃). Source: DUN YE DA JI *Euphorbia obtusifolia* var. *obtusifolia*. Ref: 2365.

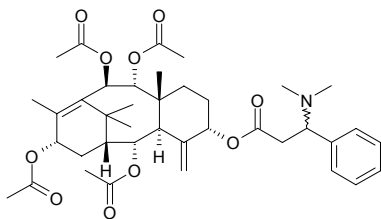
**155 6 α -Acetoxy-1 β ,8 β -dibenzoyloxy-9 β -hydroxy- β -dihydroagarofuran**

C₃₁H₃₆O₈ (536.63). White powder (EtOAc), mp 217~219°C, [α]_D = -286° (*c* = 0.70, MeOH). Pharm: NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity)^[2584]. Source: NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2584.

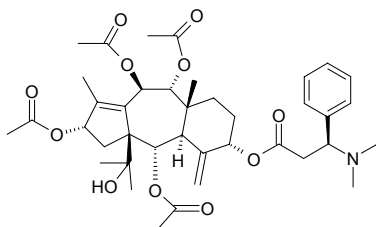


156 2 α -Acetoxy-2',7-dideacetoxy austrospicatine

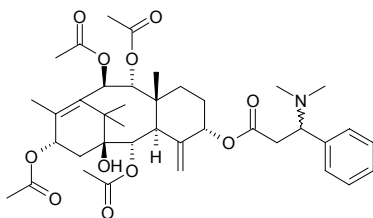
C₃₉H₅₃NO₁₀ (695.86). Source: HONG DOU SHAN *Taxus chinensis*. Ref: 662.

**157 (–)-2 α -Acetoxy-2',7-dideacetoxy-1-hydroxy-11(15→1)-abeoaustrospicatine**

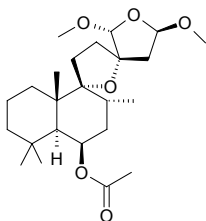
C₃₉H₅₃NO₁₁ (711.86). [α]_D = –46° (CHCl₃). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**158 (+)-2 α -Acetoxy-2',7-dideacetoxy-1-hydroxyaustrospicatine**

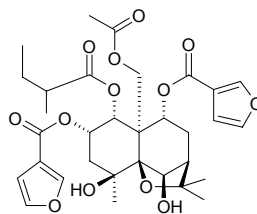
C₃₉H₅₃NO₁₁ (711.86). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**159 (rel-5S,6R,8R,9R,10S,13S,15R,16R)-6-Acetoxy-9,13;15,16-diepoxy-15,16-dimethoxylabdane**

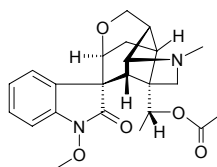
C₂₄H₄₀O₆ (424.58). Pharm: Cytotoxic (*in vitro*, PC12, GI₅₀ > 5 μ g/mL, control Cisplatin, GI₅₀ = 0.111 μ g/mL; HCT116, GI₅₀ > 5 μ g/mL, Cisplatin, GI₅₀ = 0.794 μ g/mL)^[4623]. Source: DAN YE MAN JING ZI *Vitex rotundifolia* [Syn. *Vitex trifolia* var. *simplicifolia*]. Ref: 4623.

**160 15-Acetoxy-2 α ,9 β -di-(β -furancarboxyloxy)-4 β ,6 β -dihydroxy-1 α -(2-methylbutanoyloxy)-dihydro- β -agarofuran**

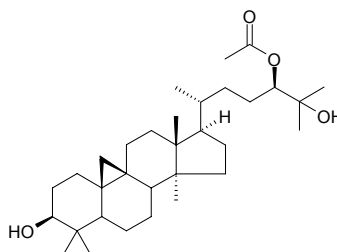
C₃₂H₄₀O₁₃ (632.67). Colorless oil, [α]_D²³ = +39.7° (*c* = 0.39, CHCl₃). Source: OU ZHOU WEI MAO *Euonymus europaeus* (seed). Ref: 4162.

**161 19-(R)-Acetoxydihydrogelsevirine**

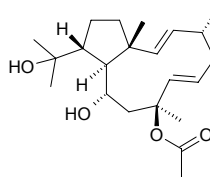
C₂₃H₂₈N₂O₅ (412.49). mp 186–189°C, [α]_D = –6.7°. Source: GOU WEN *Gelsemium elegans*. Ref: 14.

**162 24R-Acetoxy-3 β ,25-dihydroxycycloartane**

C₃₂H₅₄O₄ (502.78). Crystals (CHCl₃–hexane), mp 160°C. Source: MA LA BA JIAN MU *Dysoxylum malabaricum* (leaf). Ref: 5130.

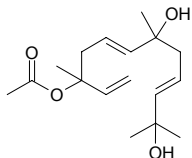
**163 10-Acetoxy-8,18-dihydroxy-2,6-dolabelladiene**

C₂₂H₃₆O₄ (364.53). Colorless oil, [α]_D²⁰ = –60° (*c* = 0.5, CHCl₃). Pharm: Anti-HSV-1 (Vero cells infected by HSV-1, 50 μ mol/L, (87±4)% of cytopathic effect inhibition of herpes virus); cytotoxic inactive (200 μ mol/L); HIV-1 RT inhibitor (40 μ mol/L, InRt = 20%, positive control AZT: 0.01 μ mol/L, InRt = 85%). Source: BA XI ZONG ZAO *Dictyota paffii*. Ref: 5023.

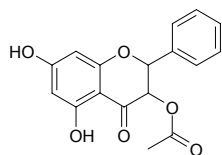


164 3-Acetoxy-7,11-dihydroxy-farnesa-1,5,9-triene

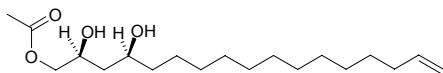
$C_{17}H_{28}O_4$ (296.41). $[\alpha]_D^{20} = +5^\circ$ ($c = 0.24$, $CHCl_3$). Source: *Gackstroemia decipiens*. Ref: 3907.

**165 trans-3-Acetoxy-5,7-dihydroxyflavanone**

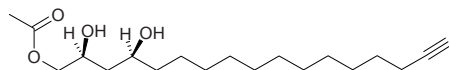
$C_{17}H_{14}O_6$ (314.30). Colorless columnar crystals, mp 264~266°C. Source: SHAN YANG *Populus davidiana*. Ref: 2212.

**166 1-Acetoxy-2,4-dihydroxy-N-heptadeca-16-ene**

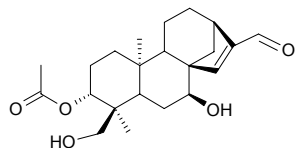
$C_{19}H_{36}O_4$ (328.50). $[\alpha]_D^{22} = -2.5^\circ$ ($c = 0.89$, $CHCl_3$). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (fruit). Ref: 3953.

**167 1-Acetoxy-2,4-dihydroxy-N-heptadeca-16-yne**

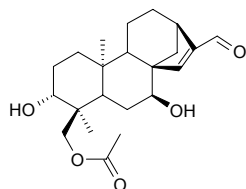
$C_{19}H_{34}O_4$ (326.48). $[\alpha]_D^{22} = -2.7^\circ$ ($c = 0.24$, $CHCl_3$). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (fruit). Ref: 3953.

**168 ent-3β-Acetoxy-7α,18-dihydroxykaur-15-en-17-al**

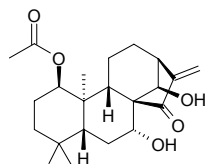
$C_{22}H_{32}O_5$ (376.50). Syrup, $[\alpha]_D = -8.2^\circ$ ($c = 0.5$, $CHCl_3$). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**169 ent-18-Acetoxy-3β,7α-dihydroxykaur-15-en-17-al**

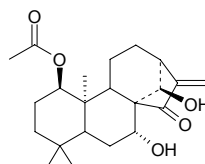
$C_{22}H_{32}O_5$ (376.50). Syrup, $[\alpha]_D = -13.6^\circ$ ($c = 1$, $CHCl_3$). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**170 ent-1α-Acetoxy-7β,14α-dihydroxy-kaur-16-en-15-one**

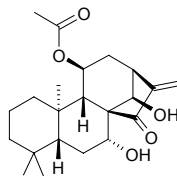
$C_{22}H_{32}O_5$ (376.50). White needles (acetone), mp 97~98°C, $[\alpha]_D^{20} = -96.0^\circ$ ($c = 0.80$, MeOH). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4342.

**171 1β-Acetoxy-7α,14β-dihydroxykaur-16-en-15-one**

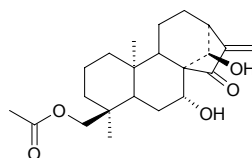
$C_{22}H_{32}O_5$ (376.5). White amorphous powder, mp 110~111°C, $[\alpha]_D^{18} = -36.7^\circ$ ($c = 1.1$, $CHCl_3$). Pharm: Anti-inflammatory (inhibits LPS-induced NF-κB activation in murine macrophage RAW264.7 cells, $IC_{50} = 0.42\mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.34\mu\text{mol/L}$; NO production inhibitor ($IC_{50} = 0.47\mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.01\mu\text{mol/L}$). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf: yield = 0.00062%dw). Ref: 4724.

**172 ent-11α-Acetoxy-7β,14α-dihydroxykaur-16-en-15-one**

$C_{22}H_{32}O_5$ (376.50). Oil, $[\alpha]_D^{19} = +21.3^\circ$ ($c = 0.41$). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf), JIE XING YE TAI *Jungermannia truncata*. Ref: 4201, 4444.

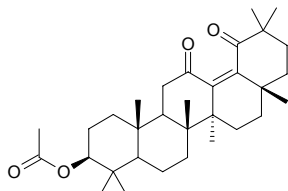
**173 18-Acetoxy-7α,14β-dihydroxykaur-16-en-15-one**

$C_{22}H_{32}O_5$ (376.50). White amorphous powder, mp 173~175°C, $[\alpha]_D^{18} = -20^\circ$ ($c = 0.6$, $CHCl_3$). Pharm: Anti-inflammatory (inhibits LPS-induced NF-κB activation in murine macrophage RAW264.7 cells, $IC_{50} = 0.07\mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.34\mu\text{mol/L}$; NO production inhibitor ($IC_{50} = 0.15\mu\text{mol/L}$; control Parthenolide, $IC_{50} = 2.01\mu\text{mol/L}$). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf: yield = 0.0014%dw). Ref: 4724.

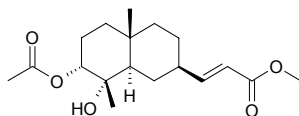


174 3 β -Acetoxy-12,19-dioxo-13(18)-oleanene

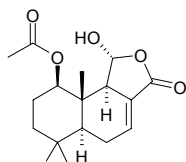
C₃₂H₄₈O₄ (496.74). Colorless solid, mp 244–247°C, [α]_D²⁴ = –94.9° (*c* = 1.0, CHCl₃). **Pharm:** Cytotoxic inactive (HONE-1 cell, IC₅₀ > 10 μ mol/L; KB cell, IC₅₀ > 10 μ mol/L; HT29 cell, IC₅₀ > 10 μ mol/L). **Source:** RONG SHU *Ficus microcarpa* (aerial root). **Ref:** 5254.

**175 3 α -Acetoxydiversifolol**

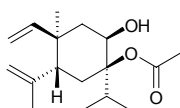
3 α -Acetoxy-4 α -hydroxy-4 β ,10 β -dimethyl-7 β -(methyl-1*E*-propenoate)-*trans*-decalin C₁₈H₂₈O₅ (324.42). Colorless gel, [α]_D²⁵ = –71.8° (*c* = 0.071, MeOH). **Pharm:** Cytotoxic (antiproliferative, Col2 cells, IC₅₀ > 20 μ g/mL); cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, 4 μ g/mL, activity denotes percentage of cells differentiated < 10%); cytotoxic (MMOC model, inhibits DMBA-induced preneoplastic lesion formation, not tested). **Source:** ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield = 0.00056%dw). **Ref:** 4622.

**176 1 β -Acetoxy-7-drimen-11 α -ol-12,11-lactone**

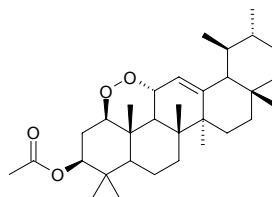
C₁₇H₂₄O₅ (308.38). Colorless amorphous solid, [α]_D²⁵ = –46.4° (*c* = 0.65, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). **Ref:** 3481.

**177 7-Acetoxy-elema-1,3-dien-8-ol**

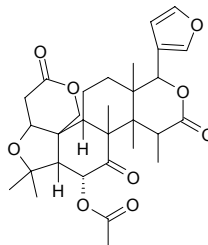
(+)-(1*R*,2*R*,4*R*,5*R*)-4-Ethenyl-2-hydroxy-4-methyl-5-(1-methylethenyl)-1-(1-methylethyl)-cyclohexylacetate C₁₇H₂₈O₃ (280.41). Colorless oil. **Source:** YING ZHI YE TAI *Lepidozia vitrea* (essential oil). **Ref:** 5209.

**178 3 β -Acetoxy-1 β ,11 α -epidioxy-12-ursene**

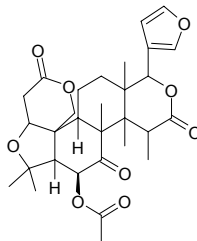
C₃₂H₅₀O₄ (498.75). Colorless solid (CH₂Cl₂), mp 250–253°C, [α]_D²⁹ = +29.4° (*c* = 0.9, CHCl₃). **Source:** RONG SHU *Ficus microcarpa* (aerial root: yield = 0.000072%dw). **Ref:** 3047.

**179 6 α -Acetoxy-5-epilimonin**

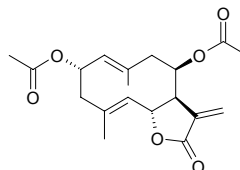
C₃₀H₃₈O₉ (542.63). **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 877.

**180 6 β -Acetoxy-5-epilimonin**

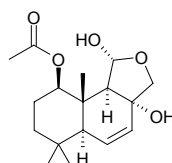
C₃₀H₃₈O₉ (542.63). **Source:** WU ZHU YU *Evodia rutaecarpa*. **Ref:** 877.

**181 2 α -Acetoxyepitulipinolide**

C₁₉H₂₄O₆ (348.40). Oil, [α]_D²⁰ = +70.4° (*c* = 0.27, CHCl₃). **Source:** KU YE DAO ZE LAN *Eupatorium sachalinense* [Syn. *Eupatorium glehni*]. **Ref:** 4226.

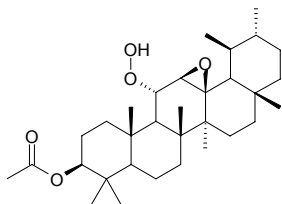
**182 1 β -Acetoxy-11,12-epoxy-6-drimen-8 α ,11 α -diol**

C₁₇H₂₆O₅ (310.39). Colorless amorphous solid, [α]_D²⁵ = –16.4° (*c* = 0.32, CHCl₃). **Source:** YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). **Ref:** 3481.

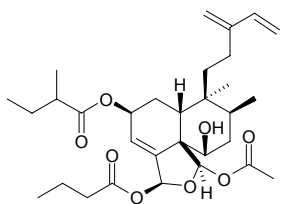


183 3 β -Acetoxy-12 β ,13 β -epoxy-11 α -hydroperoxyursane

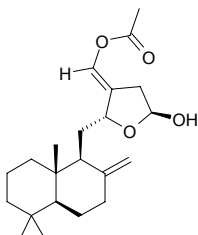
C₃₂H₅₂O₅ (516.77). Colorless solid (CH₂Cl₂), mp 187~193°C, [α]_D²⁵ = +14.4° (*c* = 0.2, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root): yield = 0.000044%dw). Ref: 3047.

**184 *rel*-(2*S*,5*R*,6*R*,8*S*,9*S*,10*R*,18*S*,19*R*)-19-Acetoxy-18,19-epoxy-6-hydroxy-18-butanoyloxy-2- (2-methylbutanoyloxy)cleroda- 3,13(16), 14-triene**

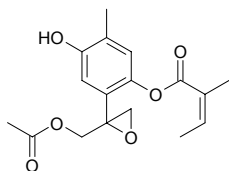
C₃₁H₄₆O₈ (546.71). Colorless viscous liquid, [α]_D²⁰ = +26° (*c* = 0.135, CH₂Cl₂). Pharm: Antitrypanosomal (Flagellate protozoan *Trypanosoma cruzi* causing Chagas' disease, MIC = 0.59 μ g/mL). Source: SHE XING LIN SHENG JIAO GU CUI *Casearia sylvestris* var. *lingua* (root bark). Ref: 4080.

**185 16-Acetoxy-12(*R*),15-epoxy-15 β -hydroxylabda-8(17),13(16)-diene**

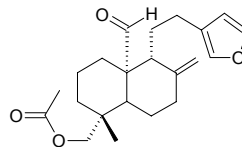
C₂₂H₃₄O₄ (362.51). Yellowish oil, [α]_D²⁰ = +35.0° (*c* = 1.4, CHCl₃). Source: *Turreanthus africanus* (seed). Ref: 3884.

**186 9-Acetoxy-8,10-epoxy-6-hydroxythymol 3-*O*-angelate**

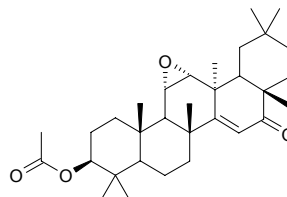
C₁₇H₂₀O₆ (320.35). [α]_D²³ = -8.5° (*c* = 0.68, CHCl₃). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**187 19-Acetoxy-15,16-epoxy-8(17),13(16),14-*ent*-labdatrien-20-al**

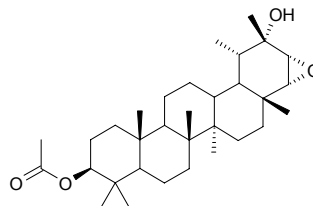
C₂₂H₃₀O₄ (358.48). White amorphous powder, [α]_D²⁵ = -17.1° (*c* = 0.52, CHCl₃). Pharm: Phytotoxin (*Raphidocelis subcapitata*, IC₅₀ = 58.27 μ mol/L). Source: FU YE YAN ZI CAI *Potamogeton natans*. Ref: 5184.

**188 3 β -Acetoxy-11 α ,12 α -epoxy-16-oxo-14-taraxerene**

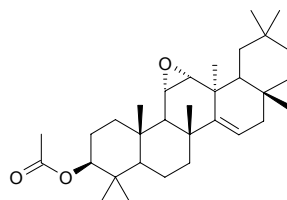
C₃₂H₄₈O₄ (496.74). Colorless solid, mp > 300°C, [α]_D²⁴ = -39.3° (*c* = 0.2, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

**189 3 β -Acetoxy-21 α ,22 α -epoxytaraxastan-20 α -ol**

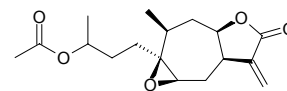
C₃₂H₅₂O₄ (500.77). Colorless solid, mp > 300°C, [α]_D²¹ = +5.6° (*c* = 0.6, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

**190 3 β -Acetoxy-11 α ,12 α -epoxy-14-taraxerene**

C₃₂H₅₀O₃ (482.75). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

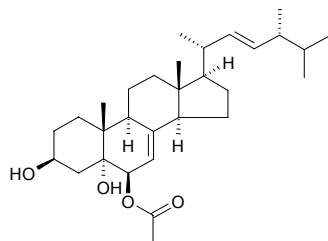
**191 4-Acetoxy-1 β ,5 β -epoxy-10 α *H*-xantha-11(13)-*en*-12,8 β -olide**

C₁₇H₂₄O₅ (308.38). Colorless gum, [α]_D²⁰ = +26.2° (*c* = 0.68, CHCl₃). Source: CHANG YE TIAN MING JING *Carpesium longifolium* (aerial part: yield = 0.0007%dw). Ref: 4736.

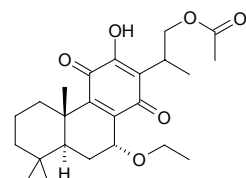


192 6 β -Acetoxy-(22E)-ergosta-7,22-diene-3 β ,5 α -diol

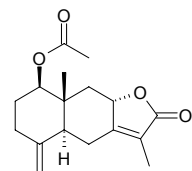
C₃₀H₄₈O₄ (472.71). Source: *Pleurotus eryngii*. Ref: 4183.

**193 16-Acetoxy-7 α -ethoxyroyleanone**

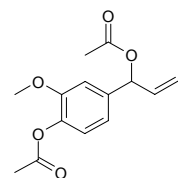
C₂₄H₃₄O₆ (418.53). mp 182~184°C. Source: XI HUANG CAO *Rabdosia serra*. Ref: 4067.

**194 1 β -Acetoxyeudesman-4(15),7(11)-dien-8 α ,12-olide**

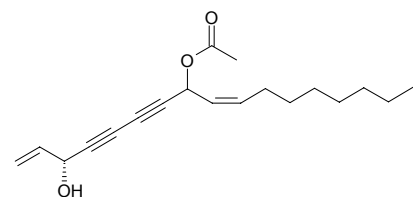
C₁₇H₂₂O₄ (290.36). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 42 μg/mL). Source: XIAO MEI WEI QIN *Smyrniolum olusatrum* (fruit). Ref: 5162.

**195 1'-Acetoxyeugenol acetate**

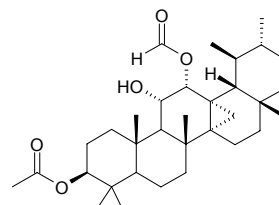
[108093-85-2] C₁₄H₁₆O₅ (264.28). Pharm: Antineoplastic (S₁₈₀, 10mg/kg, growth rate = 10.0%); antiulcerative (rat, ip, gastric ulcer, 5mg/kg, InRt = 36%; 10mg/kg, InRt = 100%); low toxin. Source: DA LIANG JIANG *Alpinia galanga*. Ref: 1, 995, 1134.

**196 8-Acetoxyfalcarinol**

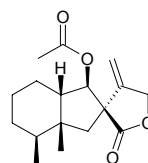
C₁₉H₂₆O₃ (302.42). Source: *Niphogeton ternata*. Ref: 4156.

**197 3 β -Acetoxy-12 α -formyloxy-13,27-cycloursan-11 α -ol**

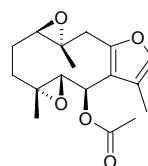
C₃₃H₅₂O₅ (528.78). mp 269~273°C, [α]_D²⁵ = +38.0° (c = 0.5, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 3524.

**198 9-Acetoxyfukinanolide**

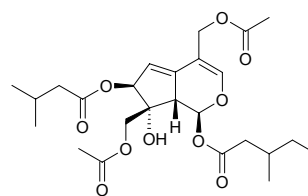
[35945-70-1] C₁₇H₂₄O₄ (292.38). mp 96~97°C. Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**199 6 β -Acetoxylechomafuran**

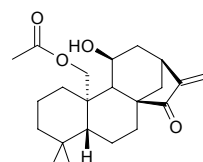
C₁₇H₂₂O₅ (306.38). Colorless gum. Source: NIAN MAO SHU WEI CAO *Salvia roborowskii*. Ref: 5439.

**200 10-Acetoxy-1-homovaltrate hydrin**

C₂₅H₃₆O₁₀ (496.56). Oil, [α]_D²⁴ = +197.5° (c = 0.01, MeOH). Source: ZHI ZHU XIANG *Valeriana jatamansii* [Syn. *Valeriana wallichii*]. (rhizome and root: yield = 0.000005% dw). Ref: 4672.

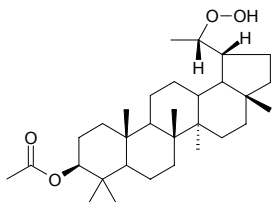
**201 ent-20-Acetoxy-11 α -hydroxy-16-kauren-15-one**

C₂₂H₃₂O₄ (360.50). Oil, [α]_D²⁰ = -94.0° (c = 0.41). Source: JIE XING YE TAI *Jungermannia truncata*. Ref: 4201.

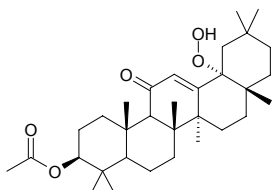


202 (20S)-3 β -Acetoxy-20-hydroperoxy-30-norlupane

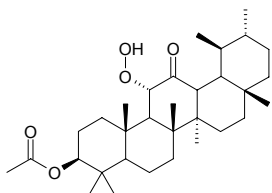
C₃₁H₅₂O₄ (488.76). Colorless solid (CH₂Cl₂), mp 159~162°C, [α]_D²⁹ = +6.8° (*c* = 3.9, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root: yield = 0.00025%dw). Ref: 3047.

**203 3 β -Acetoxy-18 α -hydroperoxy-12-oleanen-11-one**

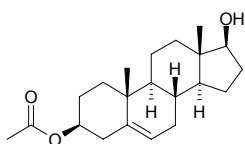
C₃₂H₅₀O₅ (514.75). Colorless solid (CH₂Cl₂), mp 205~207°C, [α]_D²⁵ = +23.7° (*c* = 0.7, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root: yield = 0.000050%dw). Ref: 3047.

**204 3 β -Acetoxy-11 α -hydroperoxy-13 α H-ursan-12-one**

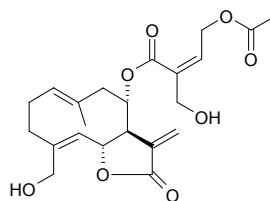
C₃₂H₅₂O₅ (516.77). Amorphous solid, [α]_D²⁵ = +63.9° (*c* = 0.4, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root: yield = 0.000056%dw). Ref: 3047.

**205 3 β -Acetoxy-17 β -hydroxy-androst-5-ene**

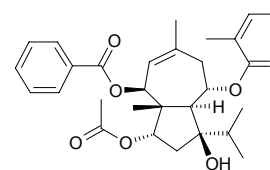
C₂₁H₃₂O₃ (332.49). Pharm: Anti-inflammation (mouse, TPA-induced ear edema, control, difference in ear thickness = (67.0±0.7)/mm³, 1.0mg/ear, difference in ear thickness = (25.0±1.6)/mm³, InRt of inflammation = 67.8%, *p* < 0.001; 2.0mg/ear, difference in ear thickness = (13.2±2.6)/mm³, InRt of inflammation = 82.4%, *p* < 0.001; control Indomethacin, 0.5mg/ear, difference in ear thickness = (15.0±1.7)/mm³, InRt of inflammation = 79.2%, *p* < 0.001; MeOH extract A of *Acacia nilotica* (aerial parts) 5.0mg/ear, difference in ear thickness = (25.0±2.3)/mm³, InRt of inflammation = 68.4%, *p* < 0.001). Source: A LA BO JIAO JIN HE HUAN *Acacia nilotica* (aerial parts). Ref: 5375.

**206 8 α -[(4-Acetoxy-5-hydroxy)-angelate]salonitenolide**

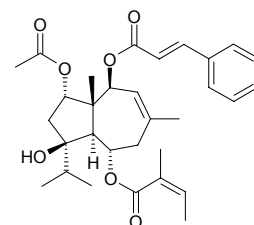
C₂₂H₂₈O₈ (420.46). Pharm: Antifungal (*Aspergillus niger*, MIC = 0.03μg/mL, control Miconazole, MIC = 1.5μg/mL; *Aspergillus ochraceus*, MIC = 0.03μg/mL, Miconazole, MIC = 1.5μg/mL; *Aspergillus versicolor*, MIC = 0.06μg/mL, Miconazole, MIC = 2μg/mL; *Aspergillus flavus*, MIC = 0.25μg/mL, Miconazole, MIC = 0.5μg/mL; *Penicillium ochrochloron*, MIC = 0.125μg/mL, Miconazole, MIC = 2μg/mL; *Penicillium funiculosum*, MIC = 0.25μg/mL, Miconazole, MIC = 2μg/mL; *Trichoderma viride*, MIC = 0.25μg/mL, Miconazole, MIC = 2μg/mL; *Cladosporium cladosporioides*, MIC = 0.125μg/mL, Miconazole, MIC = 0.03μg/mL; *Alternaria alternata*, MIC = 0.125μg/mL, Miconazole, MIC = 0.5μg/mL). Source: *Centaurea thessala* ssp. *drakensis* (aerial parts), *Centaurea attica* ssp. *attica* (aerial parts). Ref: 5115.

**207 2 α -Acetoxy-4 β -hydroxy-6 α -angeloyloxy-10 β -benzoyloxy-dauc-8-ene**

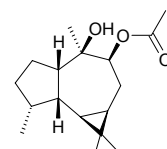
C₂₉H₃₈O₇ (498.62). Amorphous white powder, [α]_D²⁵ = +8.8° (*c* = 0.10, CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 1.6mg/mL; *Streptomyces scabies*, MIC = 1.4mg/mL; *Bacillus subtilis*, MIC = 1.2mg/mL; *Bacillus cereus*, MIC = 1.3mg/mL; *Pseudomonas aeruginosa*, MIC = 1.5mg/mL)^[5305]; antifungal (*Fusarium oxysporum*, MIC = 0.4mg/mL; *Aspergillus niger*, MIC = 0.25mg/mL). Source: HE SHI FENG *Daucus carota* (root). Ref: 5305.

**208 2 α -Acetoxy-4 β -hydroxy-6 α -angeloyloxy-10 β -cinnamoyloxy-dauc-8-ene**

C₃₁H₄₀O₇ (524.66). Amorphous yellowish powder. Source: HE SHI FENG *Daucus carota* (root). Ref: 5305.

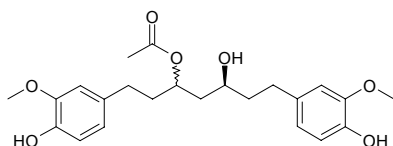
**209 9-Acetoxy-10-hydroxyaromadendrane**

C₁₇H₂₈O₃ (280.41). Colorless oil, [α]_D²⁰ = +34.4° (*c* = 0.1, CHCl₃). Source: *Tylinanthus renifolius*. Ref: 3491.



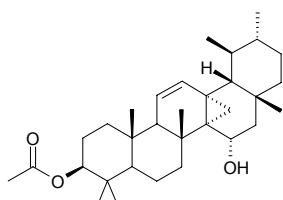
210 (3*R*,5*S*)-3-Acetoxy-5-hydroxy-1,7-bis(4-hydroxy-3-methoxyphen-yl)heptane

C₂₃H₃₀O₇ (418.49). Colorless oil, $[\alpha]_D^{24} = +6.0^\circ$ ($c = 0.56$, CHCl₃). Source: SHENG JIANG *Zingiber officinale*. Ref: 3803.



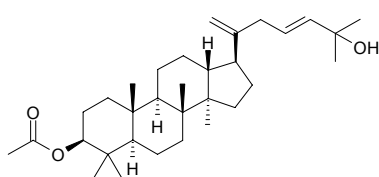
211 3β-Acetoxy-15α-hydroxy-13,27-cyclours-11-ene

C₃₂H₅₀O₃ (482.75). Colorless crystals, mp 130~135°C, $[\alpha]_D^{25} = +16.8^\circ$ ($c = 1.6$, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 3524.



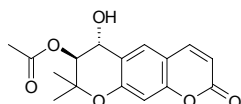
212 3β-Acetoxy-25-hydroxydammar-20,23-diene

C₃₂H₅₂O₃ (484.77). Glassy amorphous solid, $[\alpha]_D^{20} = +40^\circ$ ($c = 0.12$, CHCl₃). Source: XIAO SHE JU GEN *Microglossa pyrifolia*. Ref: 5374.



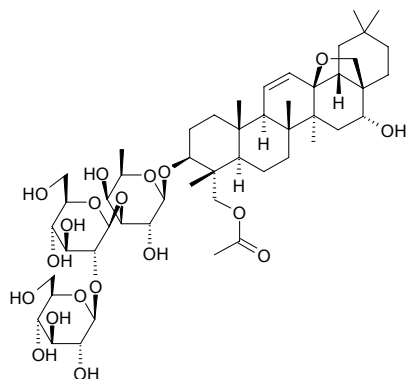
213 3'(*S*)-Acetoxy-4'(*R*)-hydroxy-3',4'-dihydroxanthyletin

C₁₆H₁₆O₆ (304.30). Light yellow powder, mp 158~160°C, $[\alpha]_D^{23} = +61.5^\circ$ ($c = 0.5$, CHCl₃). Source: QIAN HU *Angelica decursiva* [Syn. *Peucedanum decursivum*]. Ref: 874.



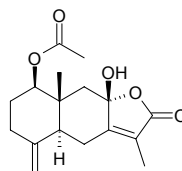
214 23-Acetoxy-16α-hydroxy-13,28-epoxyolean-11-en-3β-yl-]-β-*D*-glucopyranosyl(1→2)-]-β-*D*-glucopyranosyl(1→3)-]-β-*D*-fucopyranoside

C₅₀H₈₀O₁₉ (985.18). Source: GUAN MU CHAI HU *Bupleurum fruticosum*. Ref: 2247.



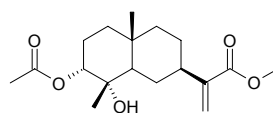
215 1β-Acetoxy-8β-hydroxyeudesman-4(15),7(11)-dien-8α,12-olide

C₁₇H₂₂O₅ (306.36). Pharm: Cytotoxic (*in vitro*, P₃₈₈, IC₅₀ = 58 μg/mL). Source: XIAO MEI WEI QIN *Smyrniolum olusatrum* (fruit). Ref: 5162.



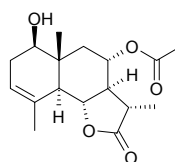
216 3α-Acetoxy-4α-hydroxy-11(13)-eudesmen-12-oic acid methyl ester

C₁₈H₂₈O₅ (324.42). Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts). Ref: 4622.



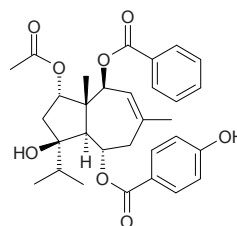
217 8α-Acetoxy-1β-hydroxyeudesm-3-en-5α,6β,7α,11β*H*-12,6-olide

C₁₇H₂₄O₅ (308.38). White needles (hexane-CH₂Cl₂), mp 137~139°C, $[\alpha]_D^{25} = +61^\circ$ ($c = 0.5$, CHCl₃). Source: JIA NA LI HAO *Artemisia canariensis*. Ref: 2332.



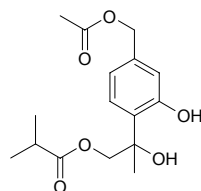
218 2α-Acetoxy-4β-hydroxy-6α-*p*-hydroxybenzoyloxy-10β-benzoyloxy-dauc-8-ene

C₃₁H₃₆O₈ (536.63). White powder, $[\alpha]_D^{25} = +22.8^\circ$ ($c = 0.30$, CHCl₃). Pharm: Antibacterial (*Staphylococcus aureus*, MIC = 1.8mg/mL; *Streptomyces scabies*, MIC = 1.2mg/mL; *Bacillus subtilis*, MIC = 1.00mg/mL; *Bacillus cereus*, MIC = 1.5mg/mL; *Pseudomonas aeruginosa*, MIC = 1.3mg/mL)^[5305], antifungal (*Fusarium oxysporum*, MIC = 0.5mg/mL; *Aspergillus niger*, MIC = 0.3mg/mL). Source: HE SHI FENG *Daucus carota* (root). Ref: 5305.



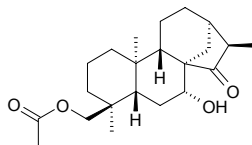
219 7-Acetoxy-8-hydroxy-9-isobutyryloxythymol

C₁₆H₂₂O₆ (310.35). $[\alpha]_D^{23} = -13.6^\circ$ ($c = 0.24$, CHCl₃). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

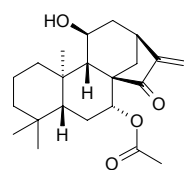


220 ent-(16S)-18-Acetoxy-7 β -hydroxykauran-15-one

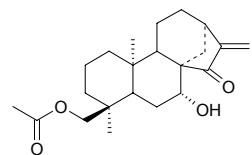
C₂₂H₃₄O₄ (362.51). Colorless needles, mp 175~176°C, [α]_D¹⁵ = -18° (*c* = 0.10, MeOH). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4057.

**221 ent-7 β -Acetoxy-11 α -hydroxykaur-16-en-15-one**

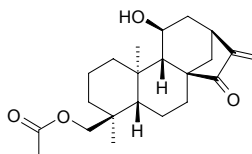
C₂₂H₃₂O₄ (360.50). White amorphous powder, [α]_D²⁵ = -127.3° (*c* = 0.20, CHCl₃). Pharm: Cytotoxic (BST test, weak active). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.

**222 18-Acetoxy-7 α -hydroxykaur-16-en-15-one**

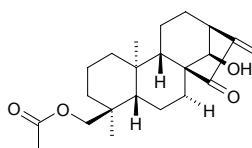
C₂₂H₃₂O₄ (360.5). White amorphous powder, mp 119~120°C, [α]_D¹⁸ = -10° (*c* = 0.3, CHCl₃). Pharm: Anti-inflammatory (inhibits LPS-induced NF- κ B activation in murine macrophage RAW264.7 cells, IC₅₀ = 0.10 μ mol/L; control Parthenolide, IC₅₀ = 2.34 μ mol/L; NO production inhibitor (IC₅₀ = 0.21 μ mol/L; control Parthenolide, IC₅₀ = 2.01 μ mol/L). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf; yield = 0.060%dw). Ref: 4724.

**223 ent-18-Acetoxy-11 α -hydroxykaur-16-en-15-one**

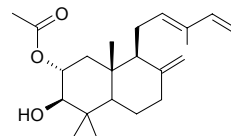
C₂₂H₃₂O₄ (360.50). White amorphous powder, [α]_D²⁵ = -155.6° (*c* = 0.20, CHCl₃). Pharm: Cytotoxic (BST test, weak active). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.

**224 ent-18-Acetoxy-14 α -hydroxykaur-16-en-15-one**

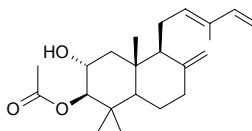
C₂₂H₃₂O₄ (360.50). White amorphous powder, [α]_D¹⁵ = -30° (*c* = 0.30, MeOH). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4057.

**225 2-Acetoxy-3-hydroxy-labda-8(17),12(E),14-triene**

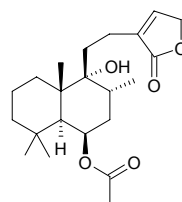
C₂₂H₃₄O₃ (346.51). White solid, mp 102~103°C, [α]_D²⁰ = +50.17° (*c* = 1.0, CHCl₃). Pharm: Cytotoxic (Kato3, IC₅₀ = 5.7 μ g/mL, control Doxorubicin hydrochloride, IC₅₀ = 1.7 μ g/mL; SW620, IC₅₀ = 7.1 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.1 μ g/mL; BT474, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.08 μ g/mL; HepG2, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.9 μ g/mL; CHAGO, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 2.3 μ g/mL). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (stem bark). Ref: 5121.

**226 3-Acetoxy-2-hydroxy-labda-8(17),12(E),14-triene**

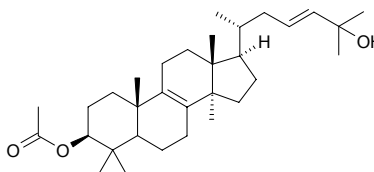
C₂₂H₃₄O₃ (346.51). White solid, mp 99~101°C, [α]_D²⁰ = +9.46° (*c* = 1.0, CHCl₃). Pharm: Cytotoxic (Kato3, IC₅₀ = 3.3 μ g/mL, control Doxorubicin hydrochloride, IC₅₀ = 1.7 μ g/mL; SW620, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 1.1 μ g/mL; BT474, IC₅₀ = 5.9 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.08 μ g/mL; HepG2, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 0.9 μ g/mL; CHAGO, IC₅₀ > 10 μ g/mL, Doxorubicin hydrochloride, IC₅₀ = 2.3 μ g/mL). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*] (stem bark). Ref: 5121.

**227 6-Acetoxy-9-hydroxy-13(14)-labden-16,15-olide**

C₂₂H₃₄O₅ (378.51). Colorless oil, [α]_D = -7.3° (*c* = 0.8, acetone), [α]_D = -10.0° (*c* = 3.3, acetone). Pharm: Antitrypanosomal (epimastigotes of *Trypanosoma cruzi*, *in vitro*, MLC = 66 μ mol/L). Source: MAN JING ZI *Vitex trifolia*. Ref: 2550.

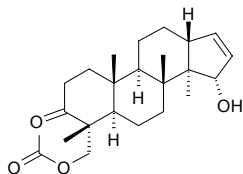
**228 3 β -Acetoxy-25-hydroxy-lanosta-8,23-diene**

C₃₂H₅₂O₃ (484.77). Pharm: Cytotoxic (*in vitro*, HONE-1 cell, IC₅₀ > 10 μ mol/L, control Etoposide, IC₅₀ = (0.5 $\pm$ 0.2) μ mol/L, *cis*-Platin, IC₅₀ = (3.2 $\pm$ 0.5) μ mol/L; KB cell, IC₅₀ > 10 μ mol/L, Etoposide, IC₅₀ = (0.9 $\pm$ 0.3) μ mol/L, *cis*-Platin, IC₅₀ = (4.4 $\pm$ 0.9) μ mol/L; HT29 cell, IC₅₀ = (9.3 $\pm$ 1.6) μ mol/L, Etoposide, IC₅₀ = (2.4 $\pm$ 0.5) μ mol/L, *cis*-Platin, IC₅₀ = (5.7 $\pm$ 1.1) μ mol/L). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

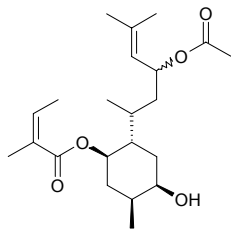


229 18-Acetoxy-15 α -hydroxymansumbinone

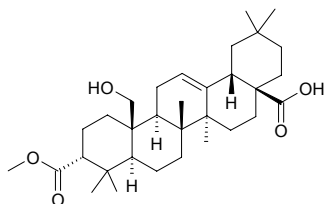
C₂₄H₃₆O₄ (388.55). Colorless crystals (*n*-hexane:CH₂Cl₂ = 1:2), mp 135~137°C, [α]_D²² = +25° (*c* = 1.0, CHCl₃). Source: KEN NI YA MO YAO *Commiphora kua* var. *gowlello*. Ref: 1991.

**230 (1*R**,3*S**,4*R**,6*S**)-9-(Acetoxy)-4-hydroxy-1-[(2*Z*)-2-methylbut-2-enyloxy]bisabol-10(11)-ene**

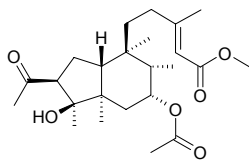
C₂₂H₃₆O₅ (380.53). Colorless gum, [α]_D²⁰ = +29.45°, (*c* = 1.613, MeOH). Pharm: Leukotriene biosynthesis Inhibitor (*in vitro*, IC₅₀ = 11.4 μmol/L, *p* < 0.05, control Zileuton, IC₅₀ = 10.4 μmol/L, *p* < 0.05). Source: GAO SHAN HUO RONG CAO *Leontopodium alpinum* (root). Ref: 5037.

**231 3 α -Acetoxy-25-hydroxyolean-12-en-28-oic acid**

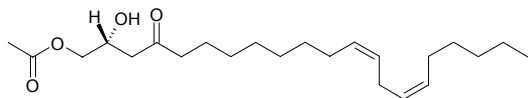
C₃₂H₅₀O₅ (514.75). Colorless columnar crystals, mp 274~276°C. Source: LU LU TONG *Liquidambar formosana* [Syn. *Liquidambar taiwaniana*]. Ref: 2226.

**232 7-Acetoxy-4-hydroxy-3-oxo-4(3→2)-abeo-13-clerodaen-15-oic acid methyl ester**

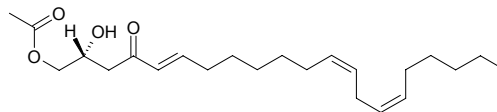
C₂₄H₃₈O₆ (422.57). [α]_D²⁴ = -28.0° (*c* = 0.25, CHCl₃). Source: GAO YI ZHI HUANG HUA *Solidago altissima*. Ref: 2366.

**233 (Z,Z)-1-Acetoxy-2-hydroxy-4-oxo-heneicosa-12,15-diene**

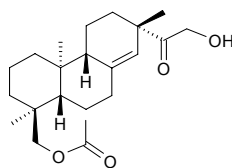
C₂₃H₄₀O₄ (380.57). Pharm: Antifungal (*Colletotrichum gloeosporioides*, ED₅₀ = 600 μg/mL). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (fruit). Ref: 3953.

**234 (E,Z,Z)-1-Acetoxy-2-hydroxy-4-oxo-heneicosa-5,12,15-triene**

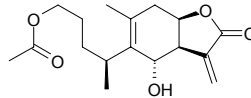
C₂₃H₃₈O₄ (378.56). [α]_D²² = +11.7° (*c* = 0.22, CHCl₃). Pharm: Antifungal (*Colletotrichum gloeosporioides*, ED₅₀ = 600 μg/mL). Source: E LI *Persea americana* [Syn. *Persea gratissima*] (fruit). Ref: 3953.

**235 ent-18-Acetoxy-16-hydroxy-8(14)-pimaren-15-one**

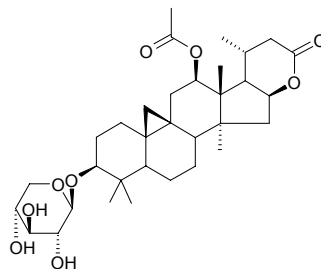
C₂₂H₃₄O₄ (362.51). Viscous oil, [α]_D²⁶ = -0.4° (*c* = 0.85, MeOH). Source: HAI NAN JIAN MU *Dysoxylum hainanense*. Ref: 750.

**236 1-Acetoxy-6 α -hydroxy-4 α H-1,10-secoeudesma-5(10),11(13)-dien-12,8 β -olide**

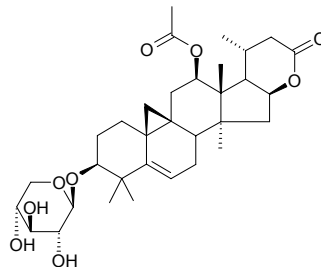
C₁₇H₂₄O₅ (308.38). Pharm: Cytotoxic inactive (SMMC-7721 IC₅₀ > 200 μg/mL, control Vincristine IC₅₀ = (30.35 ± 2.23) μg/mL; HO-8910 IC₅₀ > 200 μg/mL, Vincristine IC₅₀ = (20.74 ± 1.91) μg/mL). Source: JIN FEI CAO *Inula japonica*. Ref: 5422.

**237 12 β -Acetoxy-3 β -hydroxy-24,25,26,27-tetranorcycloartan-23,16 β -olide 3-O- β -D-xylopyranoside**

C₃₃H₅₀O₉ (590.76). White powder, [α]_D = -75.0° (MeOH). Source: *Cimicifuga* sp. Ref: 4385.

**238 12 β -Acetoxy-3 β -hydroxy-24,25,26,27-tetranorcycloart-7-en-23,16 β -olide 3-O- β -D-xylopyranoside**

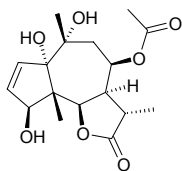
C₃₃H₄₈O₉ (588.75). White powder, [α]_D = -134.9° (MeOH). Source: *Cimicifuga* sp. Ref: 4385.



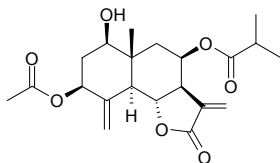
239 8- β -Acetoxysterone C

$C_{17}H_{24}O_7$ (340.38). Viscous mass, $[\alpha]_D^{25} = +32.67^\circ$ ($c = 0.08$, MeOH).

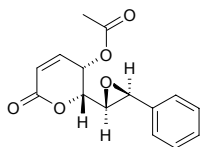
Source: YIN JIAO JU *Parthenium hysterophorus* (flower). Ref: 4489.

**240 3 β -Acetoxy-8 β -isobutyryloxyreynosin**

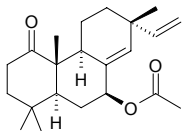
Anticancer Sesquiterpene PMV70P691-133 $C_{21}H_{28}O_7$ (392.45). Pharm: Cytotoxic (antiproliferative, Col2 cells, $IC_{50} = 5.9 \mu\text{g/mL}$)^[4622]; cytotoxic (cellular differentiation inducer, hmn promyelocytic leukemia HL-60 cells, $4 \mu\text{g/mL}$, activity denotes percentage of cells differentiated = 33.9%)^[4622, 5038]; cytotoxic (mouse mammary organ culture model (MMOC), inhibits DMBA-induced preneoplastic lesion formation, $10 \mu\text{g/mL}$, rel-InRt = 63.0%, control DMBA, rel-InRt = 100%)^[4622]. Source: ZHONG BIN JU *Tithonia diversifolia* (aerial parts: yield = 0.0035%dw)^[4622]. Ref: 4622, 5038

**241 5-Acetoxyisogoniothalamin oxide**

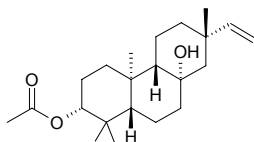
$C_{15}H_{14}O_5$ (274.28). Pharm: NADH oxidase inhibitor (mammalian mitochondrial respiratory chain inhibitor, $IC_{50} = (3.0 \pm 0.3) \mu\text{mol/L}$, $IC_{100} = (22 \pm 2) \mu\text{mol/L}$). Source: TIAN YE GE NA XIANG *Goniothalamus arvensis* (stem bark). Ref: 3961.

**242 7 β -Acetoxyisopimara-8(14),15-dien-1-one**

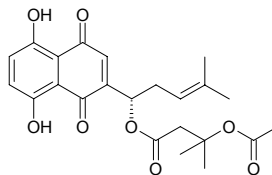
$C_{22}H_{32}O_3$ (344.50). Amorphous powder, $[\alpha]_D = +5.0^\circ$ ($c = 0.5$, CHCl_3). Pharm: Antifungal (TLC bioautographic assay, plant pathogenic fungus *Cladosporium cucumerinum*, MA = 25–50 μg , yeast *Candida albicans*, MA = 25–50 μg). Source: PU FU QIANG DAO YAO *Hypoestes serpens*. Ref: 3438.

**243 ent-3 β -Acetoxyisopimar-15-en-8 β -ol**

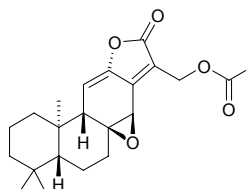
$C_{22}H_{36}O_3$ (348.53). mp $172.5\text{--}175^\circ\text{C}$, $[\alpha]_D^{20} = -20.4^\circ$ ($c = 0.11$, MeOH). Source: XIAO YE XIANG CHA CAI *Isodon parvifolia*. Ref: 4067.

**244 α -Acetoxyisovalerylalkannin**

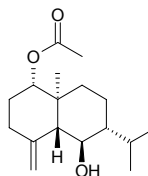
$C_{23}H_{26}O_8$ (430.46). Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*. Ref: 2193.

**245 17-Acetoxyjolkinalide A**

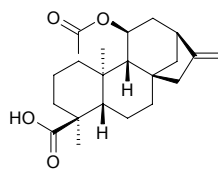
$C_{22}H_{26}O_5$ (372.47). Yellowish oil, $[\alpha]_D^{20} = +70^\circ$ ($c = 0.002$, CHCl_3). Source: LANG DU DA JI *Euphorbia fischeriana*. Ref: 2350.

**246 1 α -Acetoxy-ent-junenol**

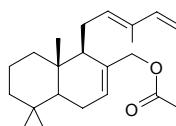
1 α ,5 β ,6 β ,7 α ,10 α -4(15)-Eudesmen-6-ol-1-yl-acetate $C_{17}H_{28}O_3$ (280.41). Amorphous powder, $[\alpha]_D^{22} = -11.2^\circ$ ($c = 0.45$, CHCl_3). Source: JING HONG AN LUO *Polyalthia cheliensis*. Ref: 2095.

**247 ent-11 α -Acetoxykaur-16-en-18-oic acid**

$C_{22}H_{32}O_4$ (360.50). White amorphous powder, $[\alpha]_D^{25} = -91.2^\circ$ ($c = 0.60$, CHCl_3). Pharm: Cytotoxic inactive (BST test). Source: DONG JIN BA DOU *Croton tonkinensis* (leaf). Ref: 4444.

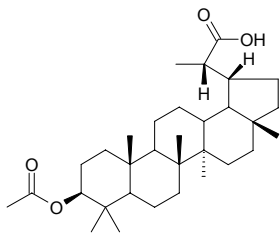
**248 17-Acetoxyabda-7,12(E),14-triene**

$C_{22}H_{34}O_2$ (330.52). Viscous liquid, $[\alpha]_D^{20} = -10.71^\circ$ ($c = 1.4$, CHCl_3). Pharm: Cytotoxic (*in vitro*, BT474, $IC_{50} = 4.7 \mu\text{g/mL}$, control Doxorubicin hydrochloride, $IC_{50} = 0.08 \mu\text{g/mL}$; CHAGO, $IC_{50} = 5.7 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 2.3 \mu\text{g/mL}$; HepG2, $IC_{50} = 6.5 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 0.9 \mu\text{g/mL}$; Kato3, $IC_{50} = 5.3 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.7 \mu\text{g/mL}$; SW620, $IC_{50} = 5.6 \mu\text{g/mL}$, Doxorubicin hydrochloride, $IC_{50} = 1.1 \mu\text{g/mL}$). Source: GUANG YE BA DOU *Croton oblongifolius* [Syn. *Croton laevigatus*]. Ref: 5363.

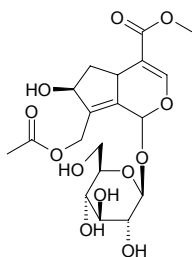


249 (20S)-3 β -Acetoxylupan-29-oic acid

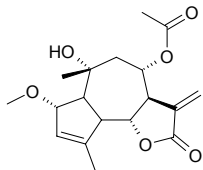
C₃₂H₅₂O₄ (500.77). Colorless solid, mp 287~290°C, [α]_D²⁹ = +18.9° (*c* = 0.7, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root: yield = 0.000044%dw). Ref: 3047.

**250 10-Acetoxymajorside**

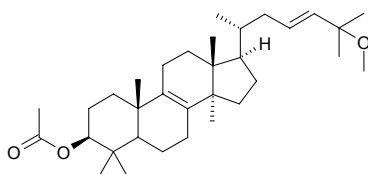
C₁₉H₂₆O₁₂ (446.41). [α]_D = -59° (*c* = 0.3, MeOH). Source: DA CHE QIAN *Plantago major*, JIAO ZHUANG CHE QIAN *Plantago cornuti*. Ref: 2404.

**251 8-Acetoxy-2-methoxy-10-hydroxy-3,11(13)-guaiadien-12,6-olide**

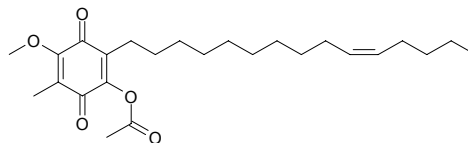
C₁₈H₂₄O₆ (336.39). [α]_D²⁵ = +120.9° (*c* = 1.583, CHCl₃). Pharm: Cytotoxic (*in vitro*, ACHN cell lines, IC₅₀ = (1.21±0.21)μg/mL, control Adriamycin, IC₅₀ = (0.09±0.03)μg/mL; LOX-IMVI, IC₅₀ = (4.86±0.34)μg/mL, Adriamycin, IC₅₀ = (0.05±0.02)μg/mL; SW620, IC₅₀ = (1.65±0.28)μg/mL, Adriamycin, IC₅₀ = (0.19±0.07)μg/mL; PC3, IC₅₀ = (4.00±0.15)μg/mL, Adriamycin, IC₅₀ = (0.76±0.12)μg/mL; A549, IC₅₀ = (3.53±0.26)μg/mL, Adriamycin, IC₅₀ = (0.28±0.09)μg/mL); anti-apoptosis (etoposide-induced, IC₅₀ = (8.6±0.7)μg/mL; control PDDC, IC₅₀ = (8.0±0.5)μg/mL). Source: BEI YE JU *Chrysanthemum boreale*. Ref: 5455.

**252 3 β -Acetoxy-25-methoxy-lanosta-8,23-diene**

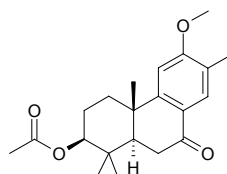
C₃₃H₅₄O₃ (498.80). Colorless solid, mp 148~150°C, [α]_D²⁶ = +30.4° (*c* = 2.7, CHCl₃). Pharm: Cytotoxic inactive (HONE-1 cell, IC₅₀ > 10μmol/L; KB cell, IC₅₀ > 10μmol/L; HT29 cell, IC₅₀ > 10μmol/L). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

**253 2-Acetoxy-5-methoxy-6-methyl-3-[(Z-10'-pentadecenyl)-1,4-benzoquinone]**

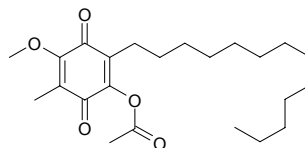
C₂₅H₃₈O₅ (418.58). Yellow gum. Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 1860.

**254 3 β -Acetoxy-12-methoxy-13-methyl-podocarpa-8,11,13-trien-7-one.**

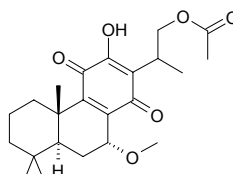
C₂₁H₂₈O₄ (344.45). White crystals, mp 158~159°C, [α]_D²⁵ = -25.2° (*c* = 0.5, CHCl₃). Source: MA FENG SHU *Jatropha curcas* (aerial parts). Ref: 4287.

**255 2-Acetoxy-5-methoxy-6-methyl-3-tridecyl-1,4-benzoquinone**

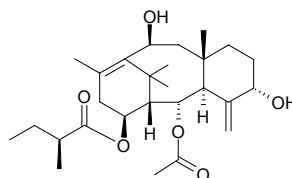
C₂₃H₃₆O₅ (392.54). Pale-yellow needles (hot *n*-hexane) mp 56~57°C Source: PI ZHEN DU JING SHAN *Maesa lanceolata*. Ref: 1860.

**256 16-Acetoxy-7 α -methoxyroyleanone**

C₂₃H₃₂O₆ (404.51). Yellow acicular crystals, mp 185~187°C, [α]_D 16 = +12.3° (*c* = 0.3, methanol). Source: CHANG YE XIANG CHA CAI *Rabdosia stracheyi*. Ref: 76, 4067.

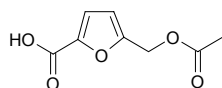
**257 2 α -Acetoxy-14 β -[(S)-2-methyl-butyryloxy]-4(20),11-taxadiene**

C₂₇H₄₂O₆ (462.63). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (wood). Ref: 5407.

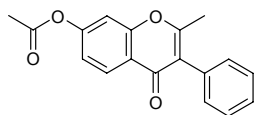


258 5-(Acetoxymethyl)-furan-2-carboxylic acid

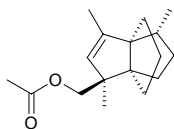
$C_8H_8O_5$ (184.15). Amorphous powder. Pharm: Antioxidant inactive (DPPH radical scavenger, 25 μ g/mL, ScRt = 5.9%; control BHT, 25 μ g/mL, ScRt = 18.6%); antioxidant inactive (thiobarbituric acid assay, inhibits peroxidation of linolenic acid, 37mg/mL, InRt = 2.3%; BHT 37mg/mL, InRt = 73.9%). Source: fungus *Epicoccum* sp. Ref: 5445.

**259 7-Acetoxy-2-methylisoflavone**

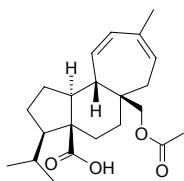
$C_{18}H_{14}O_4$ (294.31). Source: GUANG GUO GAN CAO *Glycyrrhiza glabra*. Ref: 2, 660.

**260 14-Acetoxymodhephene**

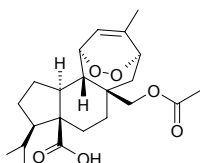
$C_{17}H_{26}O_2$ (262.40). Colorless oil, $[\alpha]_{589nm}^{25} = +15^\circ$, $[\alpha]_{578nm}^{25} = +16^\circ$, $[\alpha]_{546nm}^{25} = +19^\circ$, $[\alpha]_{436nm}^{25} = +31^\circ$, $[\alpha]_{365nm}^{25} = +47^\circ$ ($c = 2.02$, $CHCl_3$). Source: JUAN MAO KUO BAO JU *Pluchea sericea*. Ref: 2277.

**261 17-Acetoxytulinal-11,13-dien-20-oic acid**

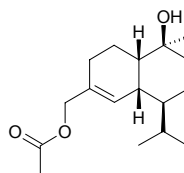
$C_{22}H_{32}O_4$ (360.50). Pharm: Antimalarial (*in vivo Plasmodium berghei* NK65 on infected mouse, ip 10mg/(kg·d), growth InRt on parasite erythrocytic life cycle = 60%; control Chloroquine, $IC_{50} = 2.5mg/(kg·d)$). Source: MI XIAO YING QIN *Azorella compacta* (aerial parts). Ref: 3815.

**262 17-Acetoxytulinalic acid**

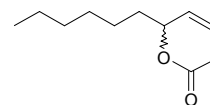
$C_{22}H_{32}O_6$ (392.50). Pharm: Antimalarial (*in vivo Plasmodium berghei* NK65 on infected mouse, ip 10mg/(kg·d), growth InRt on parasite erythrocytic life cycle = 26%; control Chloroquine, $IC_{50} = 2.5mg/(kg·d)$). Source: MI XIAO YING QIN *Azorella compacta* (aerial parts). Ref: 3815.

**263 15-Acetoxy-T-muurolool**

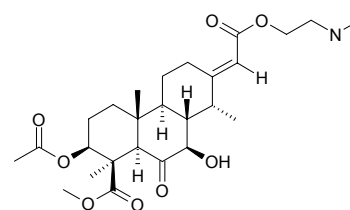
$C_{17}H_{28}O_3$ (280.41). Amorphous solid, $[\alpha]_D^{31} = -51.2^\circ$ ($c = 0.08$, $CHCl_3$). Source: TAI WAN SHAN *Taiwania cryptomerioides* (root). Ref: 4371.

**264 3-Acetoxy-1-nonene**

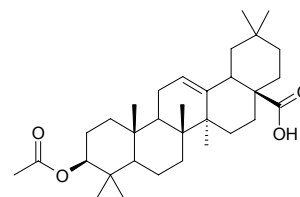
[31795-37-6] $C_{11}H_{20}O_2$ (184.28). Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**265 3β-Acetoxy-norerythrosuamine**

[58189-26-7] $C_{26}H_{39}NO_8$ (493.60). mp 173~175°C. Pharm: Cytotoxic (KB, $ED_{50} = 0.003\mu g/mL$). Source: LU SUI GE MU *Erythrophleum chlorostachyum*. Ref: 1, 5, 661.

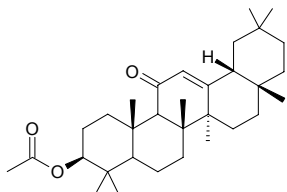
**266 3β-Acetoxyolean-12-en-28-oic acid**

3β-Acetyloleanolic acid [4339-72-4] $C_{32}H_{50}O_4$ (498.75). Colorless acicular crystals, mp 258~268°C, $[\alpha]_D^{25} = +74^\circ$ ($c = 1.0$, $CHCl_3$). Pharm: Cytotoxic (Col2, $IC_{50} = 10.4\mu g/mL$, control Ellipticine, $IC_{50} = 0.3\mu g/mL$; LNCaP, $IC_{50} > 20\mu g/mL$; KB, $IC_{50} > 20\mu g/mL$; LU1, $IC_{50} > 20\mu g/mL$)^[5400], inhibits promotor of cancer (skin tumor); immunoenhancer; antimalarial (*Plasmodium falciparum* FcB1, $IC_{50} = (7.65 \pm 0.49)\mu g/mL$; control Chloroquine, $IC_{50} = (0.05 \pm 0.002)\mu g/mL$)^[4419]. Source: BAI TOU WENG *Pulsatilla chinensis*, HUA MU PI *Betula platyphylla*, KUN MING SHAN HAI TANG *Tripterygium hypoglaucum*, LONG NAO GAO XIANG *Dryobalanops aromatica*, MEI SHANG LU *Phytolacca americana* [Syn. *Phytolacca decandra*], NV ZHEN ZI *Ligustrum lucidum*, QIAN CAO GEN *Rubia cordifolia*, XIONG RUI ZHUANG SHU WEI CAO *Salvia staminea*, ZI MEI SHU *Millingtonia hortensis*, *Drypetes molunduana* (stem), *Nuxia sphaerocephala* (leaf). Ref: 6, 660, 1667, 1668, 3989, 4419, 5400.

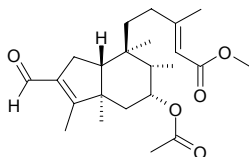


267 3 β -Acetoxy-12-oleanen-11-one

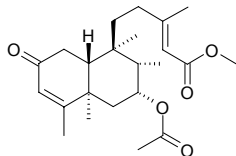
C₃₂H₅₀O₃ (482.75). Colorless solid (CH₂Cl₂), mp 283~286°C. Source: RONG SHU *Ficus microcarpa* (aerial root; yield = 0.00026%dw). Ref: 3047.

**268 7-Acetoxy-3-oxo-4(3→2)-abeo-2(4),13-clerodadien-15-oic acid methyl ester**

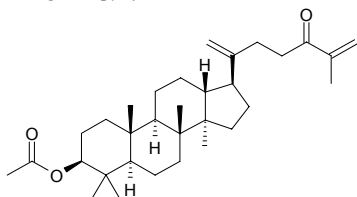
C₂₃H₃₄O₅ (390.52). [α]_D²³ = +12.0° (*c* = 0.69, CHCl₃). Source: GAO YI ZHI HUANG HUA *Solidago altissima*. Ref: 2366.

**269 7-Acetoxy-2-oxo-3,13-clerodadien-15-oic acid methyl ester**

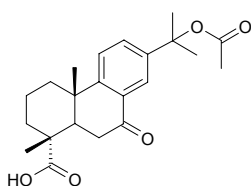
C₂₃H₃₄O₅ (390.52). mp 195~198°C (EtOAc), [α]_D²² = -80.9° (*c* = 1.02, CHCl₃). Source: GAO YI ZHI HUANG HUA *Solidago altissima*. Ref: 2366.

**270 3 β -Acetoxy-24-oxo-dammara-20,25-diene**

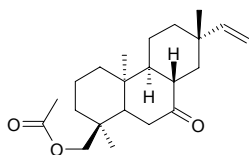
C₃₂H₅₀O₃ (482.75). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*. Ref: 5374.

**271 15-Acetoxy-7-oxo-dehydroabietic acid**

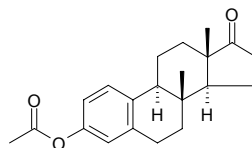
C₂₂H₂₈O₅ (372.47). Amorphous solid, [α]_D²⁵ = +7.2° (*c* = 0.34, CHCl₃). Source: TAI WAN YUN SHAN *Picea morrisonicola* (heartwood). Ref: 4054.

**272 18-Acetoxy-7-oxo-9-epi-ent-pimara-15-ene**

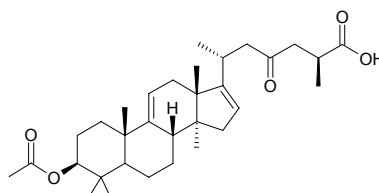
C₂₂H₃₄O₃ (346.51). Source: TENG CANG CHI MEI *Gibberella fujikuroi*. Ref: 3916.

**273 3-Acetoxy-17-oxo-estra-1,3,5(10)-triene**

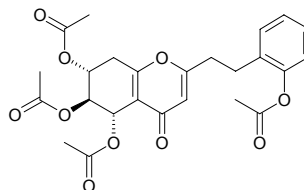
C₂₀H₂₄O₃ (312.41). Reddish plates (MeOH), mp 92~94°C. Source: DUAN ROU MAO ZHI XIE MU *Holarrhena pubescens* (bark). Ref: 5231.

**274 (25R)-3 β -Acetoxy-23-oxo-9,16-lanostadien-26-oic acid**

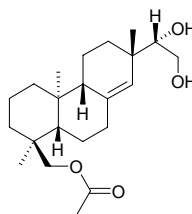
C₃₂H₄₈O₅ (512.74). Source: MEI LI TENG HUANG *Garcinia speciosa* (bark). Ref: 3762.

**275 (5S,6S,7R)-2-[2-(2-Acetoxyphenyl)ethyl]-5 α ,6 β ,7 α -triacetoxy-5,6,7,8-tetrahydrochromone (AH9)**

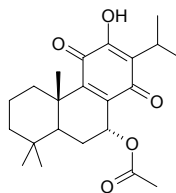
C₂₅H₂₆O₁₀ (486.48). Colorless acicular crystals, mp 147~148°C, [α]_D = -11.1°. Source: CHEN XIANG *Aquilaria agallocha*. Ref: 13.

**276 ent-18-Acetoxy-8(14)-pimarene-15S,16-diol**

C₂₂H₃₆O₄ (364.53). Viscous oil, [α]_D²⁶ = -3.5° (*c* = 0.50, MeOH). Source: HAI NAN JIAN MU *Dysoxylum hainanense*. Ref: 750.

**277 7 α -Acetoxyroyleanone**

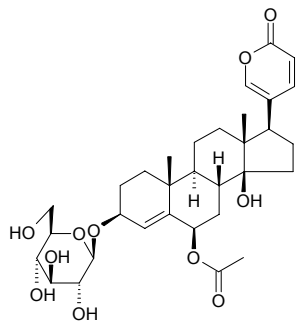
C₂₂H₃₀O₅ (374.48). Yellow crystals, mp 194~198°C. Source: XIU QIU SHU WEI CAO *Salvia hydrangea* (root). Ref: 5447.



278 6 β -Acetoxy scillarenin 3-O- β -D-glucopyranoside

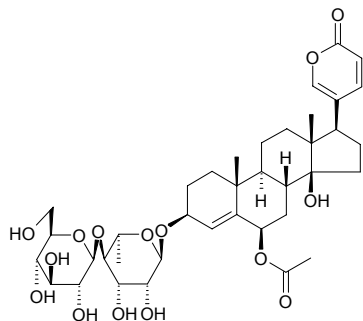
C₃₂H₄₄O₁₁ (604.70). Amorphous powder, $[\alpha]_D^{28} = -52.4^\circ$ ($c = 8.04$, MeOH).

Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.

**279 6 β -Acetoxy scillarenin 3-O- β -D-glucopyranosyl-(1 $\rightarrow$ 4)- α -L-rhamnopyranoside**

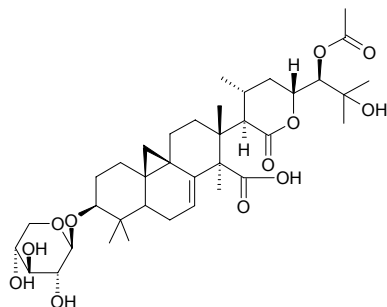
C₃₈H₅₄O₁₅ (750.85). Amorphous powder, $[\alpha]_D^{26} = -83.4^\circ$ ($c = 0.6$, MeOH).

Source: HAI CONG *Urginea maritima* (bulb). Ref: 3513.

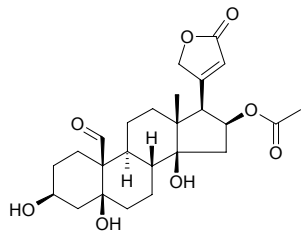
**280 24-Acetoxy-15,16-seco-cycloart-7-en 3-O-xyloside**

C₃₇H₅₆O₁₂ (692.85). White needles, $[\alpha]_D = -31.2^\circ$ (MeOH). Source:

Cimicifuga sp. (Rhizome). Ref: 4396.

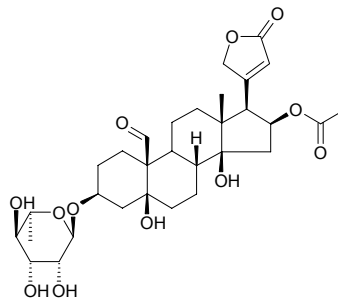
**281 16 β -Acetoxystrophanthidin**

C₂₅H₃₄O₈ (462.54). mp 232~237°C. Source: HEI GANG LIU *Periploca nigrescens*. Ref: 1521, 2498.

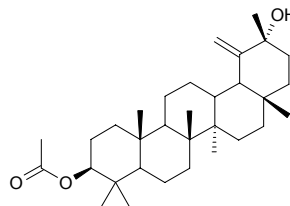
**282 16 β -Acetoxy-strophanthidin-3- β -D-O-rhamnoside**

C₃₁H₄₄O₁₂ (608.69). mp 262~268°C, $[\alpha]_D = -13.4^\circ$. Source: HEI GANG LIU

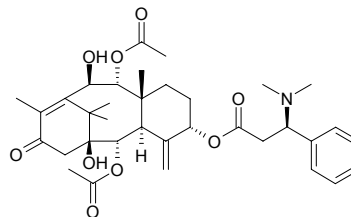
Periploca nigrescens. Ref: 1521, 2498.

**283 3 β -Acetoxy-19(29)-taraxasten-20 α -ol**

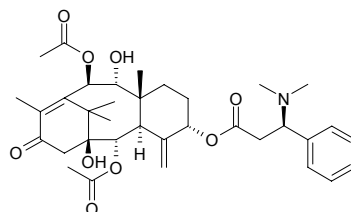
C₃₂H₅₂O₃ (484.77). Colorless solid, mp 245~248°C, $[\alpha]_D^{24} = +55.3^\circ$ ($c = 0.5$, CHCl₃). Source: RONG SHU *Ficus microcarpa* (aerial root). Ref: 5254.

**284 9-Acetoxytaxine B**

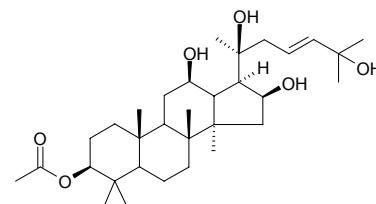
C₃₅H₄₇NO₉ (625.77). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**285 10-Acetoxytaxine B**

C₃₅H₄₇NO₉ (625.77). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

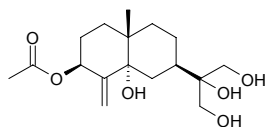
**286 (20S)-3 β -Acetoxy-12 β ,16 β ,25-tetrahydroxydammar-23-ene**

C₃₂H₅₄O₆ (534.78). Colorless crystals, mp 244~246°C, $[\alpha]_D^{25} = +76^\circ$ ($c = 1.0$, CH₂Cl₂). Source: HUN XIAO MO YAO *Commiphora confusa* (resin). Ref: 4335.

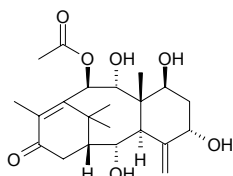


287 3 β -Acetoxy-5 α ,11,12,13-tetrahydroxy-eudesm-4(15)-ene

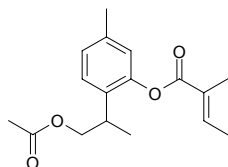
C₁₇H₂₈O₆ (328.41). [α]_D²⁵ = +6.9° (*c* = 0.42, CHCl₃). Source: XI LA SI MAO SHI *Achillea holosericea*. Ref: 2008.

**288 10 β -Acetoxy-2 α ,5 α ,7 β ,9 α -tetrahydroxytaxa-4(20),11-dien-13-one**

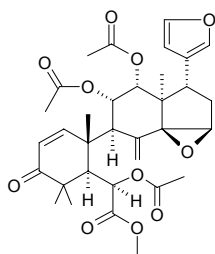
C₂₂H₃₂O₇ (408.50). Colorless amorphous solid, [α]_D²⁵ = +22.2° (*c* = 0.16, CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (bark). Ref: 3481.

**289 9-Acetoxythymo 13-O-tiglate**

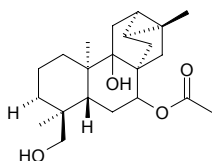
C₁₇H₂₂O₄ (290.36). [α]_D²⁴ = -10.5° (*c* = 0.57, CHCl₃). Source: PEI LAN *Eupatorium fortunei* (aerial parts). Ref: 3077.

**290 Acetoxytoonacilin**

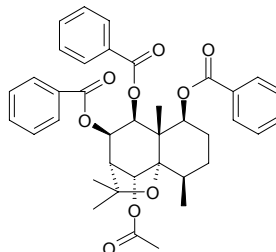
[66610-70-6] C₃₃H₄₀O₁₁ (612.68). Prismatic crystals, mp 215°C, [α]_D²⁰ = +42.5° (*c* = 1g/100ml, chloroform). Pharm: Pesticide. Source: HONG CHUN *Toona ciliata*. Ref: 661.

**291 7 β -Acetoxytrachyloban-18-oic acid**

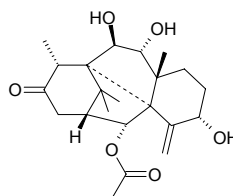
C₂₂H₃₄O₄ (362.51). Source: ZAN BI XI BA DOU *Croton zambesicus*. Ref: 4552.

**292 6 α -Acetoxy-1 β ,8 β ,9 β -tribenzoyloxy- β -dihydroagarofuran**

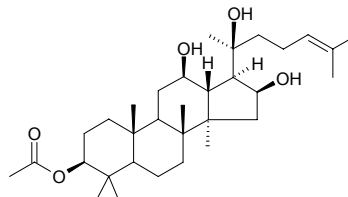
C₃₈H₄₀O₉ (640.74). Pharm: NO production inhibitor (mus, macrophage RAW264.7 cells activated by LPS, very weak activity). Source: NAN SHE TENG GUO *Celastrus orbiculatus* [Syn. *Celastrus articulatus*]. Ref: 2584.

**293 (12 α)-2 α -Acetoxy-5 α ,9 α ,10 β -trihydroxy-3,11-cyclotax-4(20)-en-13-one**

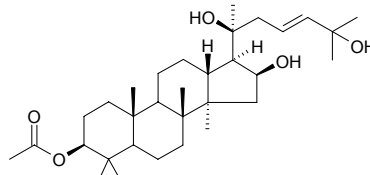
C₂₂H₃₂O₆ (392.50). Gum, [α]_D²⁴ = -17° (*c* = 0.01, CHCl₃). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis* (seed). Ref: 3991.

**294 3 β -Acetoxy-12 β ,16 β ,20 S -trihydroxydammar-24-ene**

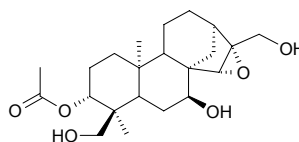
C₃₂H₅₄O₅ (518.78). Colorless needles, mp 188~190°C, [α]_D²⁵ = +46.7° (*c* = 1.0, CH₂Cl₂). Source: HUN XIAO MO YAO *Commiphora confusa* (resin). Ref: 4335.

**295 3 β -Acetoxy-16 β ,20 S ,25-trihydroxydammar-23-ene**

C₃₂H₅₄O₅ (518.78). Colorless needles, [α]_D²⁵ = +38.3° (*c* = 0.5, CH₂Cl₂). Source: KU A MO YAO *Commiphora kua* (resin). Ref: 4334.

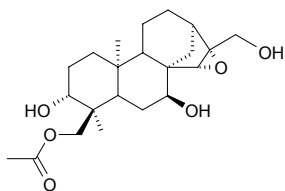
**296 ent-3 β -Acetoxy-7 α ,17,18-trihydroxy-15 β ,16 β -epoxykaurane**

C₂₂H₃₄O₆ (394.51). Syrup, [α]_D = +13.5° (*c* = 1, CHCl₃). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

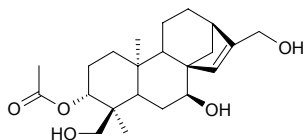


297 ent-18-Acetoxy-3 β ,7 α ,17-trihydroxy-15 β ,16 β -epoxykaurane

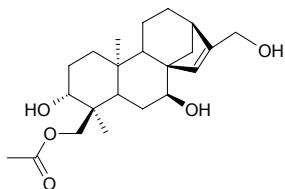
C₂₂H₃₄O₆ (394.51). White solid, mp 134~136°C, [α]_D = +12.8° (*c* = 0.5, CHCl₃). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**298 ent-3 β -Acetoxy-7 α ,17,18-trihydroxykaur-15-ene**

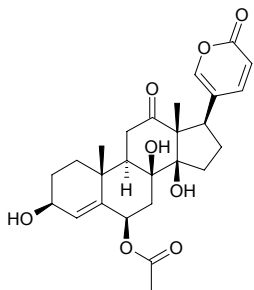
C₂₂H₃₄O₅ (378.51). White solid, mp 147~149°C, [α]_D = +13.2° (*c* = 0.5, CHCl₃). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**299 ent-18-Acetoxy-3 β ,7 α ,17-trihydroxykaur-15-ene**

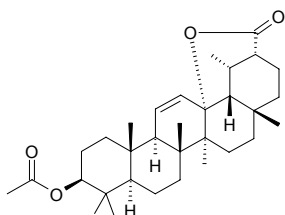
C₂₂H₃₄O₅ (378.51). Syrup, [α]_D = +8.6° (*c* = 0.63, CHCl₃). Source: MU ER DU MA CAO *Sideritis moorei* (aerial parts). Ref: 5295.

**300 6 β -Acetoxy-3 β ,8 β ,14 β -trihydroxy-12-oxobufo-4,20,22-trienolide**

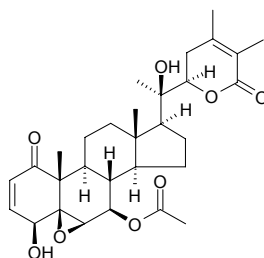
C₂₆H₃₂O₈ (472.54). Yellow amorphous compound. Source: CHU TU HAI CONG *Urginea epigea* (bulb). Ref: 3882.

**301 3 β -Acetoxy-11-ursen-13 α ,30-olide**

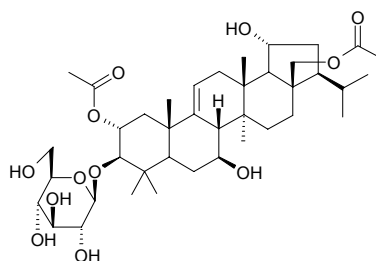
C₃₂H₄₈O₄ (496.74). Amorphous powder, [α]_D²⁵ = +46.9° (*c* = 0.3, MeOH). Source: NAN RI BEN LEI GONG TENG *Tripterygium doianum*. Ref: 1916.

**302 7 β -Acetoxywithanolide D**

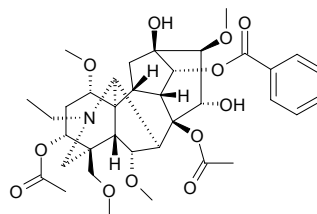
7 β -Acetoxy-4 β ,20 R -dihydroxy-5 β ,6 β -epoxy-1-oxo-witha-2,24-dienolide C₃₀H₄₀O₈ (528.65). mp 151~153°C (EtOAc). Source: BA XI YE YAN *Acnistus arborescens*. Ref: 2003.

**303 2-*O*-Acetyl-28-*O*-acetyl-rubianoside IV**

C₄₀H₆₄O₁₂ (736.95). Pharm: Anti-inflammatory inactive (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = (0.1 $\pm$ 0.3)%, control *L*-NMMA, IC₅₀ = 57 μ mol/L); β -hexosaminidase inhibitor inactive (rat basophilic cell RBL-2H3, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (1.2 $\pm$ 2.4)%). Source: XIAO HONG SHEN *Rubia yunnanensis* (root). Ref: 4347.

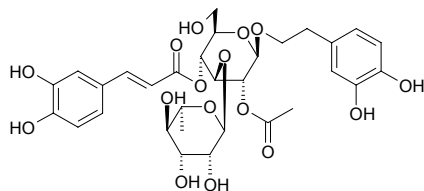
**304 3-Acetylaconitine**

Flaconitine [77181-26-1] C₃₆H₄₉NO₁₂ (687.79). White crystals (absolute alcohol), mp 196~197°C, [α]_D²⁴ = +18.6° (*c* = 1, chloroform). Pharm: Anti-inflammatory; antipyretic; causes arrhythmia (rat, iv, 0.097mg/kg); antihypertensive (dose < 0.097mg/kg); inhibits myocardial contractility (dose < 0.097mg/kg); analgesic (for all 1500 cases in clinic, analgesic effective rate = (95~97)%, non-habitual); LD₅₀ (mus, sc) = 1.4mg/kg, (mus, iv) = 0.470mg/kg. Source: BEI WU TOU *Aconitum kusnezoffii*, XUAN WEI WU TOU *Aconitum nagarum* var. *lasiantrum*. Ref: 900.

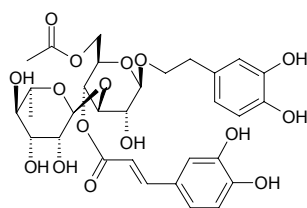


305 2'-Acetylacteoside

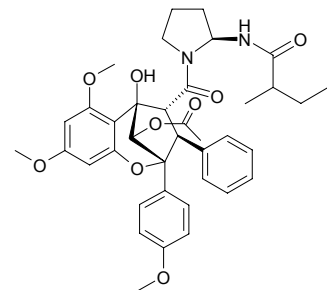
[94492-24-7] $C_{31}H_{38}O_{16}$ (666.64). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*], ROU CONG RONG *Cistanche deserticola*. Ref: 2, 628.

**306 6'-O-Acetylacteoside**

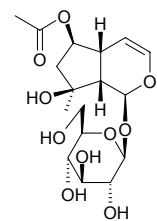
$C_{31}H_{38}O_{16}$ (666.64). Pharm: Elastase inhibitor (hmn leukocyte *in vitro*, $IC_{50} = 47\mu g/mL = 70\mu mol/L$; control Caffeic acid, $IC_{50} = 86\mu g/mL = 475\mu mol/L$). Source: NAN FEI GOU MA *Harpagophytum procumbens*. Ref: 5458.

**307 10-O-Acetylglaine B**

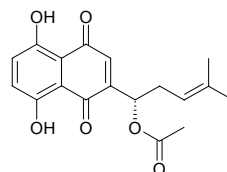
$C_{38}H_{44}N_2O_9$ (672.78). Amorphous powder, $[\alpha]_D^{20} = +20.4^\circ$ ($c = 0.83$, MeOH). Source: TUE YUAN MI ZI LAN *Aglaia elliptica* (leaf). Ref: 4127.

**308 6-O-Acetylajugol**

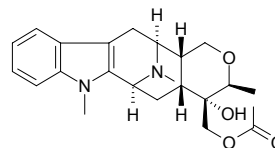
$C_{17}H_{26}O_{10}$ (390.39). Powder. Source: BO SI YI MU CAO *Leonurus persicus*. Ref: 2499.

**309 Acetylalkannin**

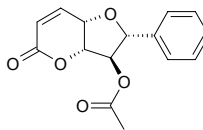
$C_{18}H_{18}O_6$ (330.34). Red acicular crystals (petroleum spirit), mp 92~94°C. Pharm: Anti-inflammatory (rat, tampon granuloma and swell-foot induced by formaldehyde); platelet aggregation inhibitor; antioxidant. Source: ZI CAO *Lithospermum erythrorhizon*, XIN ZANG JIA ZI CAO *Arnebia euchroma*, JIA ZI CAO *Arnebia guttata*, DIAN ZI CAO *Onosma paniculatum*. Ref: 1, 2, 658, 660, 2193.

**310 Acetyl-alstohentine**

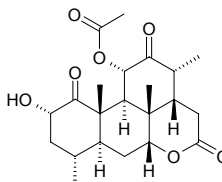
$C_{23}H_{30}N_2O_4$ (398.51). Source: DA YE TANG JIAO SHU *Alstonia macrophylla* (leaf). Ref: 3020.

**311 3-Acetylaltholactone**

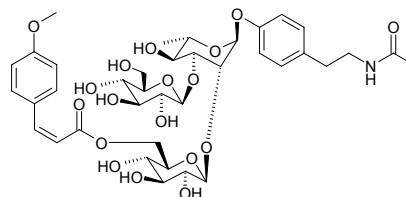
$C_{15}H_{14}O_5$ (274.28). mp 140~142°C, $[\alpha]_D = +166.6^\circ$ ($c = 0.3$, EtOH). Pharm: NADH oxidase inhibitor (mammalian mitochondrial respiratory chain inhibitor, $IC_{50} = (4.7 \pm 1.6)\mu mol/L$, $IC_{100} = (32 \pm 4)\mu mol/L$). Source: TIAN YE GE NA XIANG *Goniiothalamus arvensis* (stem bark). Ref: 3961.

**312 Acetylamarolide**

$C_{22}H_{30}O_7$ (406.48). mp 264~265°C. Source: CHU BAI PI *Ailanthus altissima*. Ref: 6.

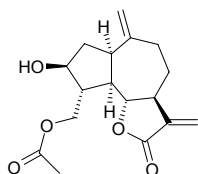
**313 4-Acetylaminoethylphenyl-1-O-[6-O-(Z)-p-methoxycinnamoyl-β-D-glucopyranosyl(1→2)]-[β-D-glucopyranosyl(1→3)]-α-L-rhamnopyranoside**

$C_{38}H_{51}NO_{18}$ (809.83). White needles (MeOH), mp 198~199°C, $[\alpha]_D^{25} = -14.1^\circ$ ($c = 0.75$, MeOH). Source: SI CHI SI LENG CAO *Schnabelia tetradonta* (aerial part: yield = 0.00062%dw). Ref: 4665.

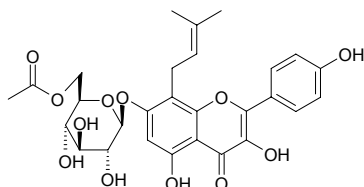


314 15-O-Acetylaphoricarpolide

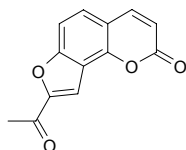
$C_{17}H_{22}O_5$ (306.36). Colorless oil, $[\alpha]_D^{25} = -40.5^\circ$ ($c = 0.44$, $CHCl_3$). Source: *Amphoricarpus neumayeri* ssp. *neumayeri* (aerial parts), *Amphoricarpus neumayeri* ssp. *murbeckii* (aerial parts). Ref: 3842.

**315 6'''-O-Acetylamurensin**

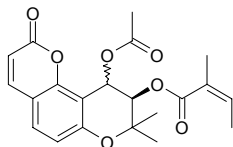
$C_{28}H_{30}O_{12}$ (558.54). Yellow powder, mp 235–237°C, $[\alpha]_D^{25} = -91.3^\circ$ ($c = 0.05$, MeOH). Source: RI BEN HUANG BAI *Phellodendron japonicum* (leaf). Ref: 4502.

**316 2'-Acetylangelicin**

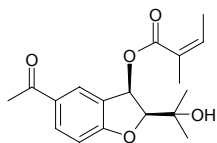
$C_{13}H_8O_4$ (228.21). Light yellow acicular crystals, mp 200–202°C (ethanol). Source: SHE CHUANG ZI *Cnidium monnieri*. Ref: 352.

**317 (±)-4'-O-Acetyl-3'-O-angeloyl-cis-khellactone**

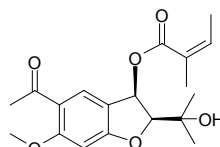
$C_{21}H_{22}O_7$ (386.41). Pharm: Induces mitochondria-mediated apoptosis (HL-60 cells). Source: BAI HUA QIAN HU *Peucedanum praeruptorum* (root). Ref: 4983.

**318 5-Acetyl-3β-angeloyloxy-2β-(1-hydroxyisopropyl)-2,3-dihydrobenzofuran**

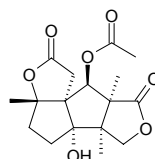
$C_{18}H_{22}O_5$ (318.37). Yellowish oil, $[\alpha]_D^{25} = -75.7^\circ$ ($c = 0.57$, $CHCl_3$). Pharm: Antifungal (*Trichophyton mentagrophytes* ATCC28185, MIC = 200 μg/mL, control Miconazole, MIC = 8 μg/mL; *Trichophyton rubrum* ATCC28188, MIC = 100 μg/mL, Miconazole, MIC = 8 μg/mL). Source: *Eupatorium aschenbornianum*. Ref: 5472.

**319 5-Acetyl-3β-angeloyloxy-2β-(1-hydroxyisopropyl)-6-methoxy-2,3-dihydrobenzofuran**

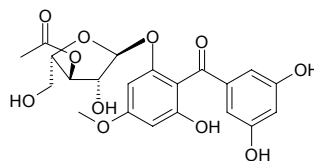
$C_{19}H_{24}O_6$ (348.40). Colorless oil, $[\alpha]_D^{25} = -30.4^\circ$ ($c = 0.53$, $CHCl_3$). Pharm: Antifungal (*Trichophyton mentagrophytes* ATCC28185, MIC = 50 μg/mL, control Miconazole, MIC = 8 μg/mL; *Trichophyton rubrum* ATCC28188, MIC = 50 μg/mL, Miconazole, MIC = 8 μg/mL). Source: *Eupatorium aschenbornianum*. Ref: 5472.

**320 7-O-Acetylanisilactone B**

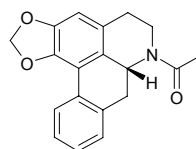
$C_{17}H_{22}O_7$ (338.36). Source: *Illicium merrillianum* (pericarp: yield = 0.00006% dw). Ref: 3046.

**321 Acetylannulatophenonoside**

$C_{21}H_{22}O_{11}$ (450.40). Colorless prismatic crystals ($H_2O-EtOH$), mp 177.5–179.5°C, $[\alpha]_D^{20} = -7.48^\circ$ ($c = 1.055$, MeOH). Source: HUAN ZHUANG JIN SI TAO *Hypericum annulatum*. Ref: 2009.

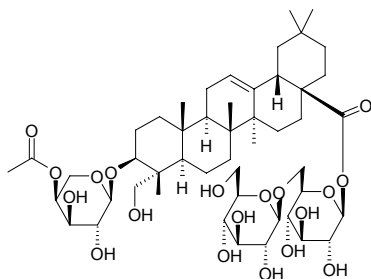
**322 N-Acetylanonaine**

$C_{19}H_{17}NO_3$ (307.35). Pharm: Platelet aggregation inhibitor (rat blood: 2–5 μmol/L ADP-induced, $IC_{50} = 450$ μmol/L, control Acetylsalicylic acid, $IC_{50} > 1000$ μmol/L; 2–5 μg/mL collagen-induced, $IC_{50} = 32$ μmol/L, Acetylsalicylic acid, $IC_{50} = 420$ μmol/L; 1–4 μmol/L epinephrine-induced with threshold concentration of collagen (0.8–1.0 μg/mL), $IC_{50} = 0.39$ μmol/L, Acetylsalicylic acid, $IC_{50} = 53$ μmol/L; 10–40 μmol/L AA-induced with threshold concentration of collagen (0.8–1.0 μg/mL), $IC_{50} = 0.25$ μmol/L, Acetylsalicylic acid, $IC_{50} = 66$ μmol/L; 1–5 μmol/L U46619-induced with threshold concentration of collagen (0.8–1.0 μg/mL), $IC_{50} = 3.6$ μmol/L, Acetylsalicylic acid, $IC_{50} = 340$ μmol/L; 1–2 μmol/L hmn U46619 in 1 mmol/L acetylsalicylic acid-induced, $IC_{50} = 64$ μmol/L, control Pentolamine, $IC_{50} > 100$ μmol/L, control Yohimbine, $IC_{50} > 100$ μmol/L). Source: RI BEN HOU PO *Magnolia obovata* (leaf). Ref: 5381.



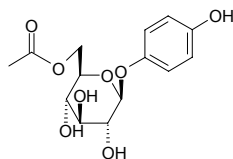
323 3-O-(4-O-Acetyl)- α -L-arabinopyranosyl-hederagenin 28-O- β -D-glucopyranosyl-(1 $\rightarrow$ 6)- β -D-glucopyranoside

C₄₉H₇₈O₁₉ (971.16). White powder, mp 198~201°C, [α]_D²³ = +19.7° (c = 0.25, methanol). Source: CHUAN XU DUAN *Dipsacus asperoides*. Ref: 201.



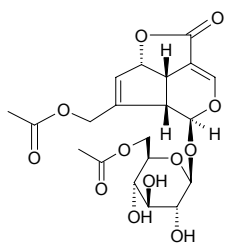
324 6-O-Acetylbutin

Pyroside [10338-88-2] C₁₄H₁₈O₈ (314.29). mp 214~216°C, [α]_D²³ = -58.8° (c = 2.0, H₂O). Source: XI YANG LI *Pyrus communis*, YUE JU YE *Vaccinium vitis-idaea*. Ref: 6, 1521.



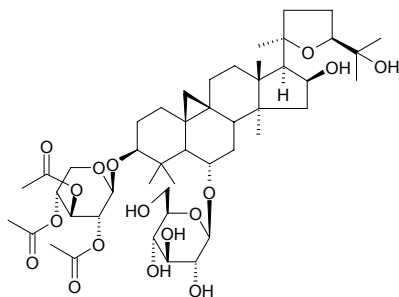
325 6'-Acetyl asperuloside

C₂₀H₂₄O₁₂ (456.41). White powder, [α]_D = -104.6° (c = 0.085, methanol). Source: JIN MAO ER CAO *Hedyotis chrysotricha* [Syn. *Oldenlandia chrysotricha*]. Ref: 400.



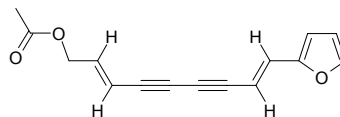
326 Acetyl astragaloside I

C₄₇H₇₄O₁₇ (911.10). Source: HUANG QI *Astragalus membranaceus*. Ref: 660.



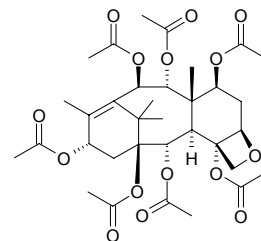
327 Acetyl-atractylodinol

[61582-39-6] C₁₅H₁₂O₃ (240.26). Source: BEI CANG ZHU *Atractylodes chinensis*. Ref: 2.



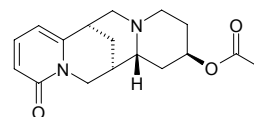
328 1 β -Acetylbaecatin IV

C₃₄H₄₆O₁₅ (694.74). Source: YUN NAN HONG DOU SHAN *Taxus yunnanensis*. Ref: 662.



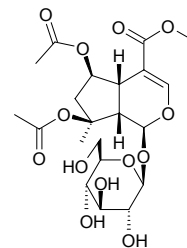
329 13-O-Acetylbaptifoline

C₁₇H₂₂N₂O₃ (302.38). Colorless oleaginous substance, [α]_D = -101° (c = 0.18, EtOH). Source: MU MA DOU *Thermopsis lanceolata*. Ref: 699.



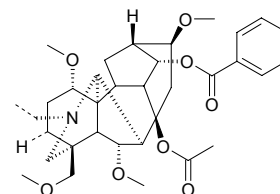
330 Acetylbarlerin

C₂₁H₃₀O₁₃ (490.47). [α]_D³⁰ = -113.7° (c = 0.105, MeOH). Pharm: Cytotoxic inactive (Vero cells)^[5456]; COX-2 inhibitor inactive^[5456]. Source: HUA YE JIA DU JUAN *Barleria lupulina* (flower). Ref: 5456.



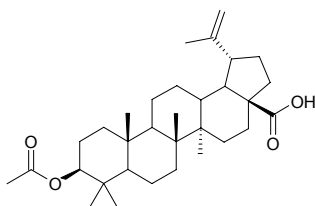
331 8-Acetyl-14-benzoylchamanine

[4296-54-2] C₃₄H₄₇NO₈ (597.76). Colorless acicular crystals, mp 150~152°C, [α]_D²⁵ = +9.8° (c = 0.08, ethanol). Source: SONG PAN WU TOU *Aconitum sungpanense*. Ref: 107.

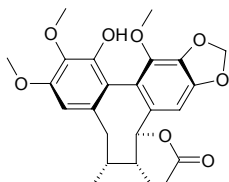


332 Acetylbetulinic acid

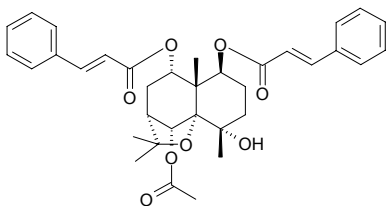
$C_{32}H_{50}O_4$ (498.75). **Pharm:** Cytotoxic (*in vitro*, HONE-1 cell, IC_{50} = $(4.7 \pm 1.9) \mu\text{mol/L}$, control Etoposide, IC_{50} = $(0.5 \pm 0.2) \mu\text{mol/L}$, *cis*-Platin, IC_{50} = $(3.2 \pm 0.5) \mu\text{mol/L}$; KB cell, IC_{50} = $(6.7 \pm 2.6) \mu\text{mol/L}$, Etoposide, IC_{50} = $(0.9 \pm 0.3) \mu\text{mol/L}$, *cis*-Platin, IC_{50} = $(4.4 \pm 0.9) \mu\text{mol/L}$; HT29 cell, IC_{50} > $10 \mu\text{mol/L}$, Etoposide, IC_{50} = $(2.4 \pm 0.5) \mu\text{mol/L}$, *cis*-Platin, IC_{50} = $(5.7 \pm 1.1) \mu\text{mol/L}$). **Source:** RONG SHU *Ficus microcarpa* (aerial root). **Ref:** 5254.

**333 Acetylbinankadsurin A**

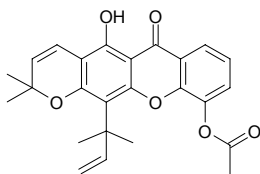
$C_{24}H_{28}O_8$ (444.49). **Source:** RI BEN NAN WU WEI ZI *Kadsura japonica*. **Ref:** 660.

**334 5 α -Acetyl-1 β ,8 α -bis-cinnamoyl-4 α -hydroxydihydroagarofuran**

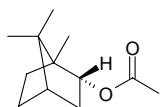
$C_{35}H_{40}O_8$ (588.70). Amorphous powder, $[\alpha]_D^{25}$ = $+198.0^\circ$ (c = 0.3, MeOH). **Source:** NAN RI BEN LEI GONG TENG *Tripterygium doianum*. **Ref:** 1916.

**335 Acetyl blancoxanthone**

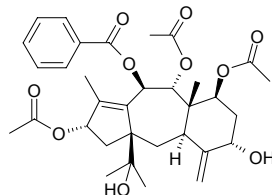
$C_{25}H_{24}O_6$ (420.47). Yellowish powder. **Source:** *Calophyllum blancoi* (root). **Ref:** 4441.

**336 Acetylborneol**

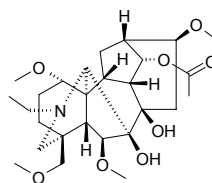
1,7,7-Trimethyl-acetate-endobicyclo[2.2.1]heptan-2-ol [76-49-3] $C_{12}H_{20}O_2$ (196.29). mp $26.5\sim 29.0^\circ\text{C}$, bp $225\sim 226^\circ\text{C}$. **Source:** HOU PO *Magnolia officinalis*, HUANG HUA HAO *Artemisia annua*, LIAO XI XIN *Asarum heterotropoides* var. *mandshuricum*, QIANG HUO *Notopterygium incisum*, SHENG JIANG *Zingiber officinale*, WU WEI ZI *Schisandra chinensis*, XI XIN *Asarum sieboldii*, YIN CHEN HAO *Artemisia capillaris*, YU XING CAO *Houttuynia cordata*. **Ref:** 1, 2, 6, 660.

**337 13-Acetylbrevifolol**

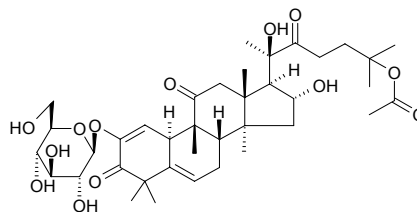
$C_{33}H_{42}O_{10}$ (598.70). $[\alpha]_D$ = $+8^\circ$ (MeOH). **Source:** XI MA LA YA HONG DOU SHAN *Taxus wallichiana*. **Ref:** 662.

**338 Acetylbrowniine**

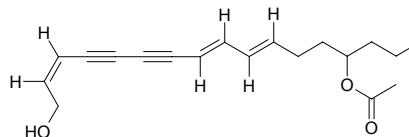
[65601-04-9] $C_{27}H_{43}NO_8$ (509.65). **Pharm:** Ileal smooth muscle stimulant (gpg, 0.2mmol/L). **Source:** XI SHAN CUI QUE *Delphinium oreophilum*, LIANG SI FEI YAN CAO *Consolida ambigua*. **Ref:** 658.

**339 25-O-Acetylbryoamaride**

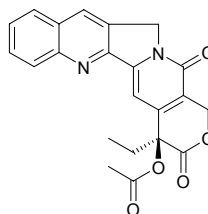
$C_{38}H_{56}O_{13}$ (720.86). Pale yellow amorphous solid, $[\alpha]_D$ = -61.0° (c = 0.94, $CHCl_3$). **Source:** FENG GUA *Gymnopetalum integrifolium* (fruit). **Ref:** 4189.

**340 Acetyl-bupleurotoxin**

$C_{19}H_{24}O_3$ (300.40). Colorless lamellar crystals, mp 48°C , $[\alpha]_D^{18}$ = -10° (c = 0.04, methanol). **Pharm:** Toxin. **Source:** DA YE CHAI HU *Bupleurum longiradiatum*. **Ref:** 81.

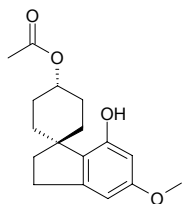
**341 20-O-Acetylcampthothecin**

$C_{22}H_{18}N_2O_5$ (390.40). **Source:** XI SHU *Camptotheca acuminata*. **Ref:** 4097.

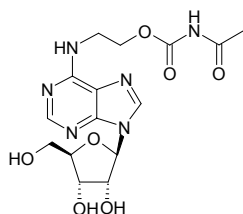


342 Acetyl cannabispirol

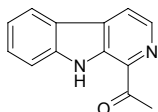
$C_{15}H_{22}O_4$ (290.36). Source: MA YE *Cannabis sativa*. Ref: 660.

**343 *N*⁶-[β -(Acetylcarbamoyloxy)ethyl] adenosine**

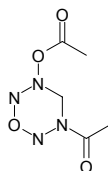
$C_{15}H_{20}N_6O_7$ (396.36). White crystal powder. Source: REN GONG YONG CHONG CAO *Cordyceps militaris* cv. Ref: 858.

**344 1-Acetyl- β -carboline**

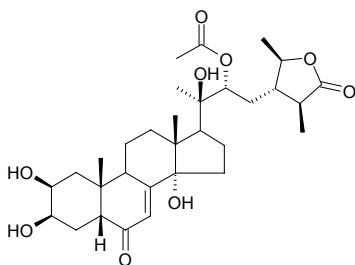
[50892-83-6] $C_{13}H_{10}N_2O$ (210.24). Source: KU MU *Picrasma quassioides* [Syn. *Picrasma ailanthoides*]. Ref: 12.

**345 3-Acetyl-5-carbomethoxy-2*H*-3,4,5,6-tetrahydro-1-oxa-2,3,5,6-tetrazine**

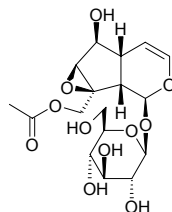
$C_5H_{10}N_4O_4$ (190.16). Source: XIAN MAO *Curculigo orchoides*. Ref: 660.

**346 22-Acetylcastosterone**

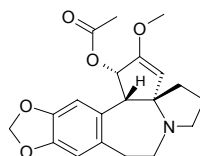
$C_{31}H_{46}O_9$ (562.71). White amorphous solid, mp 212–214°C, $[\alpha]_D^{25} = +111.7^\circ$ ($c = 0.007$, $CHCl_3$). Source: TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole plant). Ref: 4483.

**347 Acetylcatalpol**

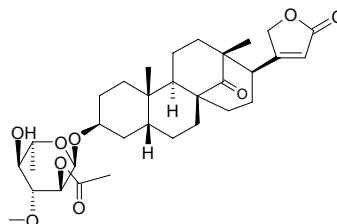
$C_{17}H_{24}O_{11}$ (404.37). Source: GAN DI HUANG *Rehmannia glutinosa* [Syn. *Rehmannia glutinosa* f. *huechingensis*]. Ref: 2.

**348 Acetylcephalotaxine**

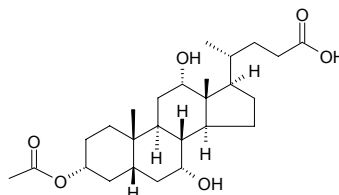
[24274-60-0] $C_{20}H_{23}NO_5$ (357.41). Source: SAN JIAN SHAN *Cephalotaxus fortunei*. Ref: 2.

**349 2'-*O*-Acetyl cerleaside A**

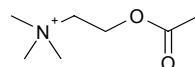
$C_{32}H_{46}O_9$ (574.72). White solid, mp 209–211°C, $[\alpha]_D^{26} = -62.50^\circ$ ($c = 0.0016$, $CHCl_3$). Pharm: Cytotoxic (KB, $ED_{50} = 7.56\mu g/mL$; BC, $ED_{50} = 4.62\mu g/mL$; NCI-H187, $ED_{50} = 7.42\mu g/mL$; control Ellipticine, $ED_{50} = 0.3\text{--}0.6\mu g/mL$)^[3777]. Source: AO DAO LA MU HAI MANG GUO *Cerbera odollam* (seed), NIU XIN QIE ZI *Cerbera manghas*. Ref: 2594, 3777.

**350 Acetylcholic acid**

$C_{26}H_{42}O_6$ (450.62). Source: XIANG DAN *Elephas maximus*. Ref: 6.

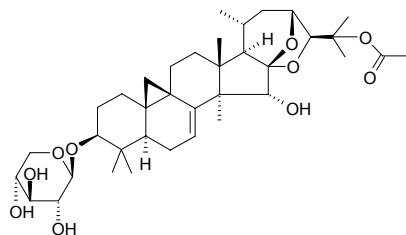
**351 Acetylcholine**

O-Acetylcholine [51-84-3] $C_7H_{16}NO_2^+$ (146.21). Source: FENG MI *Apis cerana*, FENG RU *Apis cerana*, JI CAI *Capsella bursa-pastoris*, MAI JIAO *Claviceps purpurea*, SHAN ZHA *Crataegus pinnatifida*, SHAN ZHA YE *Crataegus pinnatifida*, SHI QI *Diospyros kaki*, XIONG DAN *Selenarctos thibetanus*; *Ursus arctos*. Ref: 6, 660.

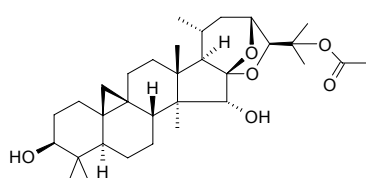


352 Acetylcmifugoside

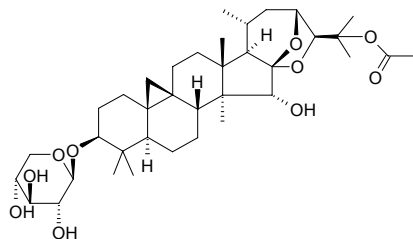
25-*O*-Acetyl-7,8-didehydrocimigenol 3-*O*- β -D-xylopyranoside C₃₇H₅₆O₁₀ (660.85). Source: XING AN SHENG MA *Cimicifuga dahurica* (rhizome), YE SHENG MA *Cimicifuga simplex*. Ref: 6, 4140.

**353 25-*O*-Acetylcmigenoside**

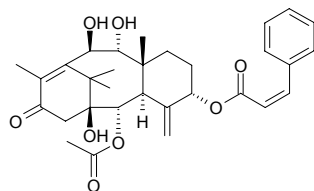
C₃₇H₅₀O₆ (530.75). mp 193~194°C. Source: SAN MIAN DAO *Cimicifuga acerina*. Ref: 6.

**354 25-*O*-Acetylcmigenoside**

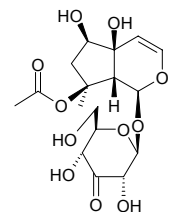
C₃₇H₅₈O₁₀ (662.87). mp 234~235°C. Source: SAN MIAN DAO *Cimicifuga acerina*, YE SHENG MA *Cimicifuga simplex*. Ref: 6.

**355 2-*O*-Acetyl-5-*O*-cinnamoyltaxicin I**

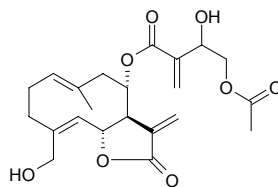
C₃₁H₃₈O₈ (538.64). Source: JIANG GUO ZI SHAN *Taxus baccata*. Ref: 662.

**356 8-*O*-Acetylclandonoside**

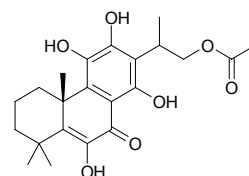
8-*O*-Acetylharpagide-aglucone-1-*O*- β -D-ribohexo-3-ulopyranoside [239449-45-7] C₁₇H₂₄O₁₁ (404.37). White amorphous powder. Source: ZHAO JIAO YOU⁽²⁾ *Caryopteris clandonensis*. Ref: 2312.

**357 4'-Acetylnicin**

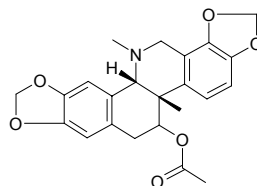
C₂₂H₂₈O₈ (420.46). Pharm: Antifungal (*Aspergillus niger*, MIC = 0.125µg/mL, control Miconazole, MIC = 1.5µg/mL; *Aspergillus ochraceus*, MIC = 0.06µg/mL, Miconazole, MIC = 1.5µg/mL; *Aspergillus versicolor*, MIC = 0.125µg/mL, Miconazole, MIC = 2µg/mL; *Aspergillus flavus*, MIC = 0.125µg/mL, Miconazole, MIC = 0.5µg/mL; *Penicillium ochrochloron*, MIC = 0.25µg/mL, Miconazole, MIC = 2µg/mL; *Penicillium funiculosum*, MIC = 0.5µg/mL, Miconazole, MIC = 2µg/mL; *Trichoderma viride*, MIC = 0.5µg/mL, Miconazole, MIC = 2µg/mL; *Cladosporium cladosporioides*, MIC = 0.125µg/mL, Miconazole, MIC = 0.03µg/mL; *Alternaria alternata*, MIC = 0.125µg/mL, Miconazole, MIC = 0.5µg/mL). Source: *Centaurea thessala* ssp. *drakensis* (aerial parts), *Centaurea attica* ssp. *attica* (aerial parts). Ref: 5115.

**358 16-*O*-Acetylcoleon C**

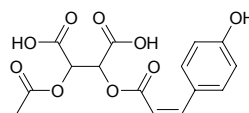
C₂₂H₂₈O₇ (404.46). Source: HUANG QIAO RUI HUA *Coleus xanthanthus* (aerial parts: yield = 0.00021%dw). Ref: 4625.

**359 Acetylcorynoline**

C₂₃H₂₃NO₆ (409.44). mp 157~159°C. Source: KU DI DING *Corydalis bungeana* (whole herb with root: content scope of 5 origins = 0.032%~0.059%, mean content = 0.058%^[5508]), YUN QIAN HU *Peucedanum rubricaulis*, ZHAO HUA YU DENG CAO *Corydalis incisa*. Ref: 6, 436, 5501, 5508.

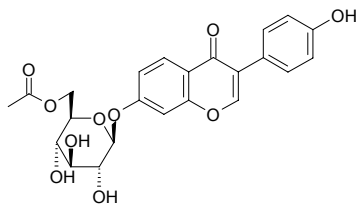
**360 2-Acetyl-3-(*p*-coumaroyl)-*meso*-tartaric acid**

C₁₅H₁₄O₉ (338.27). Source: BO CAI *Spinacia oleracea*. Ref: 6.

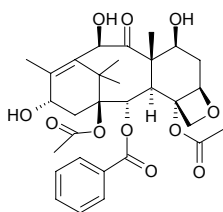


361 6"-O-Acetylaidzin

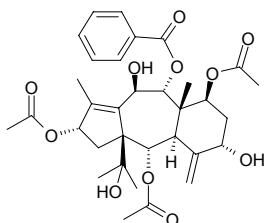
Daidzein 7-O- β -D-(6"-O-acetylglucopyranoside) [71385-83-6] C₂₃H₂₂O₁₀ (458.43). Needles, mp 186~189°C. **Pharm:** Phyto-estrogen; antioxidant. **Source:** DOU YOU *Glycine max*, DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.036%dw)^[4630]. **Ref:** 2200, 4630.

**362 1-Acetyl-10-deacetylbaecatin III**

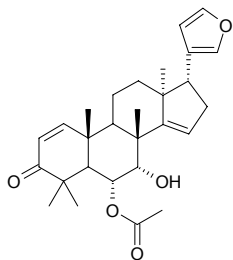
C₃₁H₃₈O₁₁ (586.64). **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis*. **Ref:** 662.

**363 13-Acetyl-9-deacetyl-9-benzoyl-10-debenzoyltaxchinin A**

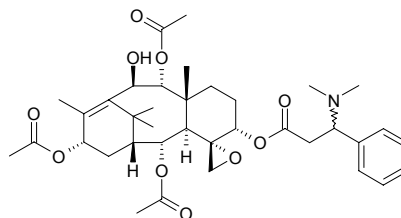
C₃₃H₄₂O₁₁ (614.70). mp 121~122°C, [α]_D = -14.9° (CHCl₃). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

**364 6 α -O-Acetyl-7-deacetylnimocinol**

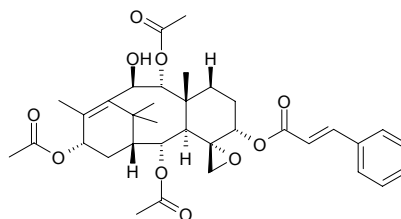
24,25,26,27-Tetra-norapotirucalla-(apoeupha)-6 α -acetoxy-7 α -hydroxy-1,14,20,22-tetraen-21,23-epoxy-3-one C₂₈H₃₆O₅ (452.60). Slender rods (MeOH), mp 60~62°C, [α]_D²⁷ = +6.6° (c = 0.12, CHCl₃). **Pharm:** Insecticidal (*Aedes aegypti*, 21.0mg/L, mean mortalities = 50%, Range = (41.84~58.15)%; 31.5 mg/L, mean mortalities = 62%, Range = (56.84~67.16)%; 42.0 mg/L, mean mortalities = 72%, Range = (66.84~77.16)%; 52.5 mg/L, mean mortalities = 84%, Range = (77.68~90.32)%; 63.0 mg/L, mean mortalities = 92%, Range = (86.84~97.16)%). **Source:** YIN DU LIAN *Azadiractica indica* (fresh leaf). **Ref:** 3914.

**365 9 α -Acetyl-10 β -deacetyl-spicataxine**

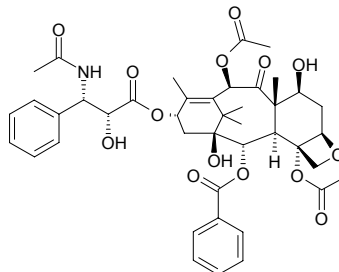
[126585-91-9] C₃₇H₅₁NO₁₀ (669.82). **Source:** AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. **Ref:** 662.

**366 9 α -Acetyl-10 β -deacetyl-spicataxine**

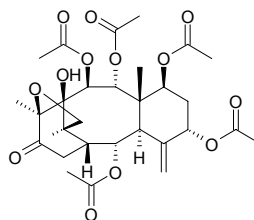
[126617-15-0] C₃₅H₄₄O₁₀ (624.73). **Source:** AO DA LI YA HONG DOU SHAN *Austrotaxus spicata*. **Ref:** 662.

**367 N-Acetyl-N-debenzoyltaxol**

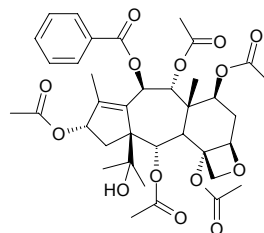
C₄₂H₄₉NO₁₄ (791.86). Gum. **Source:** JIA NA DA HONG DOU SHAN *Taxus canadensis* (needle leaf). **Ref:** 3958.

**368 5 α -Acetyl-5 α -decinnamoyltaxagifine**

C₃₀H₄₀O₁₃ (608.65). **Source:** HONG DOU SHAN *Taxus chinensis*. **Ref:** 662.

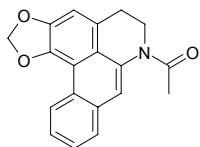
**369 13-Acetyl-13-decinnamoyltaxchinin B**

C₃₇H₄₆O₁₄ (718.77). mp 243~244°C, [α]_D = -54° (CHCl₃). **Source:** JIANG GUO ZI SHAN *Taxus baccata*. **Ref:** 662.

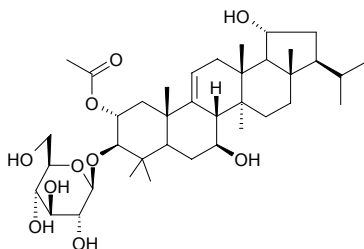


370 N-Acetyldehydroanonaine

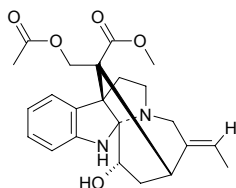
$C_{19}H_{15}NO_3$ (305.34). **Pharm:** Platelet aggregation inhibitor; DNA isomerase inhibitor; antibacterial; cytotoxic. **Source:** YE HUA JIAO YE *Zanthoxylum simulans*. **Ref:** 2176.

**371 2-O-Acetyl-28-dehydroxy-rubianoside IV**

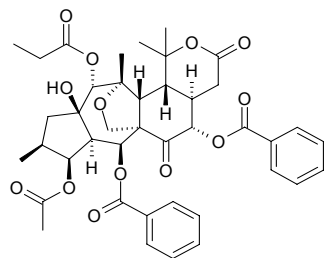
$C_{38}H_{62}O_{10}$ (678.91). **Pharm:** Anti-inflammatory inactive (inhibits nitric oxide production, LPS-activated mouse peritoneal macrophages, 100 μ mol/L, InRt = (5.8 $\pm$ 3.8)%, control *L*-NMMA, IC₅₀ = 57 μ mol/L); β -hexosaminidase inhibitor inactive (rat basophilic cell RBL-2H3, inhibits release of β -hexosaminidase, 100 μ mol/L, InRt = (-15.4 $\pm$ 1.4)%). **Source:** XIAO HONG SHEN *Rubia yunnanensis* (root). **Ref:** 4347.

**372 22-O-Acetyl-N₆-demethyl-echitamine**

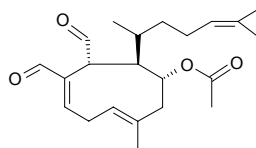
$C_{23}H_{28}N_2O_5$ (412.49). White acicular crystals, mp 234°C. **Source:** PEN JIA SHU *Winchia calophylla*. **Ref:** 270.

**373 3-Acetyl-5 β ,8 α -dibenzylformyl-14-propanoyl myrsinoltype diterpene with C9-C10 cyclized to form an additional lactone ring**

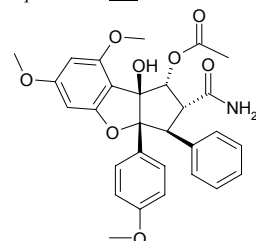
$C_{41}H_{46}O_{13}$ (746.82). White acicular crystals, mp 276~278°C. **Source:** TU GUA LANG DU *Euphorbia prolifera*. **Ref:** 807.

**374 4 α -Acetyl dictyodial**

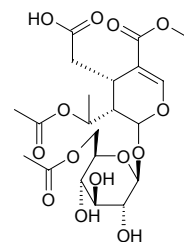
$C_{20}H_{32}O_4$ (360.50). Colorless oil, $[\alpha]_D^{20} = -163.6^\circ$ ($c = 0.30$, CH_2Cl_2). **Source:** XIAN ZHUANG WANG DI ZAO *Dictyota linearis*. **Ref:** 3818.

**375 1-O-Acetyl-N,N-didemethylrocaglamide**

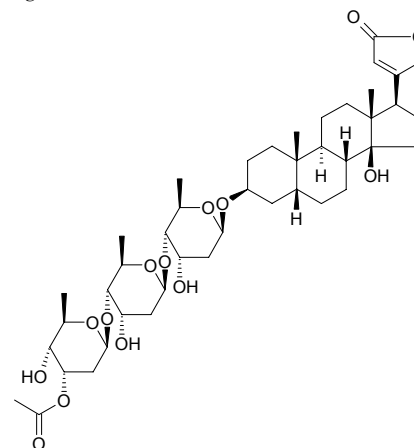
[259143-57-2] $C_{29}H_{29}NO_8$ (519.56). **Pharm:** Insecticidal (neonate larvae of *Spodoptera littoralis*, LC₅₀ = 1.97mg/L, EC₅₀ = 0.14mg/L; control Azadirachtin, LC₅₀ = 0.9mg/L, EC₅₀ = 0.04mg/L). **Source:** *Aglaia duperreana*. **Ref:** 2376.

**376 6'-O-Acetyldideroside**

6'-Acetyl- β -D-glucopyranosyldideroside $C_{21}H_{30}O_{14}$ (506.46). Amorphous powder, $[\alpha]_D^{25} = -76.5^\circ$ ($c = 1.0$, MeOH). **Pharm:** Antitrypanosomal (trypomastigotes of *Trypanosoma cruzi*, *in vitro*, IC₅₀ = 90.2 μ g/mL, control Gentian violet, IC₅₀ = 7.5 μ g/mL). **Source:** *Calyculophyllum spruceanum*. **Ref:** 3439.

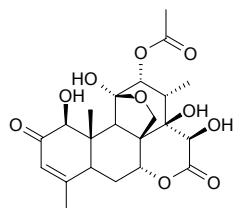
**377 α -Acetyldigitoxin**

[1111-39-3] $C_{43}H_{66}O_{14}$ (809.96). White, tiny lamellar crystal powder, mp 217~221°C, $[\alpha]_D^{20} = +5^\circ$ ($c = 0.7$, pyridine). **Pharm:** Cardiotonic (same action and usage as digitoxin). **Source:** MAO HUA MAO DI HUANG *Digitalis lanata*. **Ref:** 661.

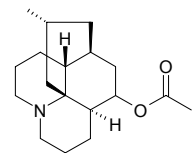


378 12-Acetyl-13,21-dihydroeurycomanone

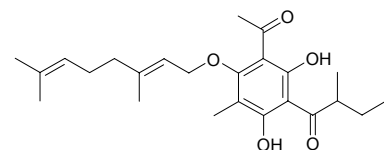
$C_{22}H_{28}O_{10}$ (452.46). Pharm: Cytotoxic (P_{388} cells, $IC_{50} = 0.94 \mu\text{g/mL}$). Source: *Eurycoma* sp. Ref: 4556.

**379 O-Acetyl-dihydrolycopodium**

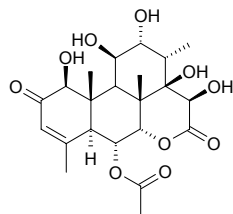
$C_{18}H_{29}NO_2$ (291.44). Source: YU BAI SHI SONG *Lycopodium obscurum*. Ref: 660.

**380 2-Acetyl-3,5-dihydroxy-1-geranoxy-6-methyl-4-(2-methyl)butyryl-benzene**

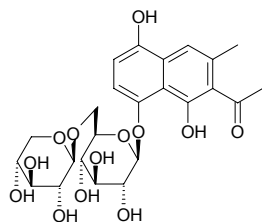
$C_{24}H_{34}O_5$ (402.54). Colorless oil, $[\alpha]_D^{31.2} = -7.02^\circ$ ($c = 0.057$, MeOH). Source: DI ER CAO *Hypericum japonicum*. Ref: 762.

**381 6α-Acetyl-14β,15β-dihydroxyklaineaneone**

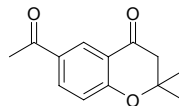
$C_{22}H_{30}O_{10}$ (454.48). Source: *Eurycoma* sp. Ref: 4556.

**382 2-Acetyl-1,5-dihydroxy-3-methyl-8-O(β-xylopyranosyl-(1→6)-O-(β-glucopyranosyl)) naphthalene**

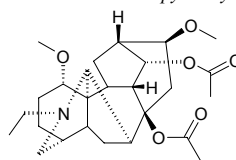
$C_{24}H_{30}O_{13}$ (526.50). Source: TA SI MA NI YA JIE GENG LAN *Dianella tasmanica* (berry), HEI JIE GENG LAN *Dianella nigra* (berry). Ref: 5214.

**383 6-Acetyl-2,2-dimethylchroman-4-one**

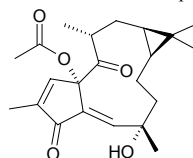
$C_{13}H_{14}O_3$ (218.25). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, $100 \mu\text{g/mL}$, $100 \mu\text{mol/L}$ AA-induced, $\text{AggRt} = 100\%$, control $50 \mu\text{mol/L}$ Aspirin, $\text{AggRt} = 100\%$; $10 \mu\text{g/mL}$ collagen-induced, $\text{AggRt} = 11.1\%$, $100 \mu\text{mol/L}$ Aspirin, $\text{AggRt} = 4.9\%$; 0.1 U/mL thrombin-induced, $\text{AggRt} = 6.7\%$, $100 \mu\text{mol/L}$ Aspirin, $\text{AggRt} = 1.7\%$; 2 ng/mL PAF-induced, $\text{AggRt} = 16.8\%$, $100 \mu\text{mol/L}$ Aspirin, $\text{AggRt} = 2.1\%$). Source: SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). Ref: 5427.

**384 8-Acetyldolaconine**

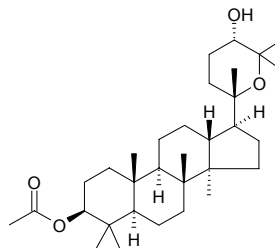
[132160-38-4] $C_{26}H_{39}NO_6$ (461.60). Wax solid. Source: WAN ZHUO WU TOU *Aconitum campylorrhynchum*. Ref: 158.

**385 15-O-Acetyl-15-epi-(4E)-jatrogrossidentadione**

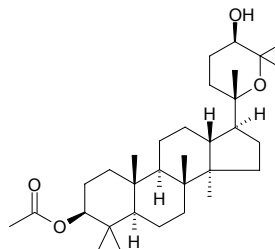
$C_{22}H_{30}O_5$ (374.48). Semi solid, $[\alpha]_D^{25} = -165.2^\circ$ ($c = 0.5$, CHCl_3). Source: MA FENG SHU *Jatropha curcas* (aerial parts). Ref: 4287.

**386 3β-Acetyl-20,25-epoxydammarane-24α-ol**

$C_{32}H_{54}O_4$ (502.78). White amorphous solid, $[\alpha]_D = 22.7^\circ$ ($c = 0.022$, CHCl_3). Source: LIAN QIAO *Forsythia suspensa*. Ref: 753.

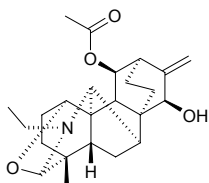
**387 3β-Acetyl-20,25-epoxydammarane-24β-ol**

$C_{32}H_{54}O_4$ (502.78). White gum, $[\alpha]_D = 81^\circ$ ($c = 0.05$, CHCl_3). Source: LIAN QIAO *Forsythia suspensa*. Ref: 753.

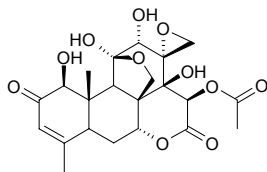


388 11-Acetyl-1,19-epoxydenudatine

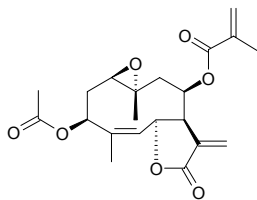
$C_{24}H_{33}NO_4$ (399.53). Colorless needles, mp 201~202°C (acetone). Source: JI LIN WU TOU *Aconitum kirinense*. Ref: 2515.

**389 15-Acetyl-13α(21)-epoxyeurycomanone**

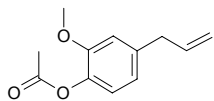
$C_{22}H_{26}O_{11}$ (466.45). Source: *Eurycoma* sp. Ref: 4556.

**390 Acetylerioflorin**

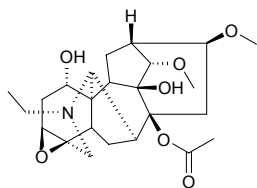
$C_{21}H_{26}O_7$ (390.44). Source: *Viguiera eriophora* ssp. *eriphora* (aerial parts). Ref: 5090.

**391 Acetyleugenol**

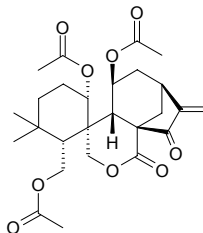
Eugenyl acetate [93-28-7] $C_{12}H_{14}O_3$ (206.24). mp 30~31°C, bp 281~282°C/752mmHg. Source: DING XIANG *Syzygium aromaticum* [Syn. *Eugenia caryophyllata*] (dried bud, content scope = 1.12%~2.72%^[5501]), YUE GUI ZI *Laurus nobilis*. Ref: 6, 660, 5501.

**392 8-Acetylexcelsine**

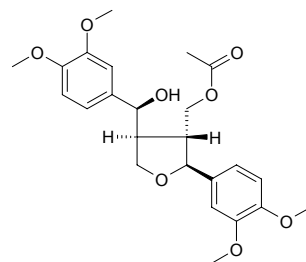
$C_{24}H_{35}NO_7$ (449.55). White resinoid solid. Source: JI LIN WU TOU *Aconitum kirinense*. Ref: 2515.

**393 Acetylexidonin**

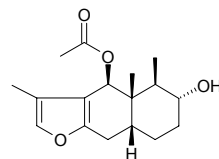
Acetylrrabdosin B $C_{26}H_{34}O_9$ (490.56). mp 165~167°C. Source: LAN E XIANG CHA CAI *Isodon japonica* var. *glaucoalyx*. Ref: 4067.

**394 9'-O-Acetyl-(7R,8S,7R,8S)-(-)-fargesol**

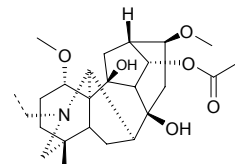
$C_{24}H_{30}O_8$ (446.50). Colorless oil, $[\alpha]_D^{21.2} = +35.2^\circ$ ($c = 1.20$, $CHCl_3$). Source: ZHOU YE MU LAN *Magnolia praecocissima* (seed). Ref: 4181.

**395 6-Acetylfuranofukinol**

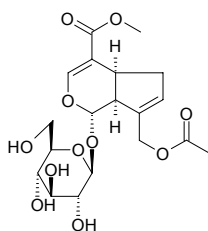
$C_{17}H_{24}O_4$ (292.38). Source: FENG DOU CAI *Petasites japonicus*. Ref: 6.

**396 14-Acetylgenicunine B**

$C_{25}H_{39}NO_6$ (449.59). Amorphous solid, $[\alpha]_D^{20} = +24.2^\circ$ ($c = 0.55$, $CHCl_3$). Source: BAN HUA WU TOU *Aconitum variegatum* (aerial parts). Ref: 5270.

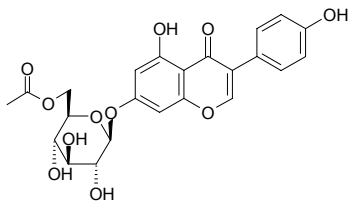
**397 10-O-Acetylgeniposide**

$C_{19}H_{26}O_{11}$ (430.41). Source: ZHI ZI *Gardenia jasminoides* [Syn. *Gardenia florida*]. Ref: 2, 660, 626.

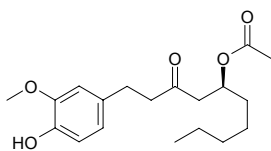


398 6"-O-Acetylgenistin

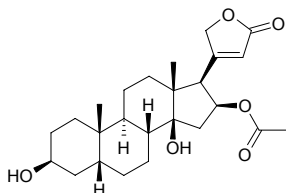
Genistein 7-O- β -D-(6"-O-acetylglucopyranoside) [73566-30-0] C₂₃H₂₂O₁₁ (474.43). Needles, mp 185~186°C. Pharm: Phyto-estrogen; antioxidant. Source: DOU YOU *Glycine max*, DA DOU *Glycine max* (Soybean phytochemical concentrate: yield = 0.039%dw)^[4630]. Ref: 2200, 4630.

**399 6-Acetyl gingerol**

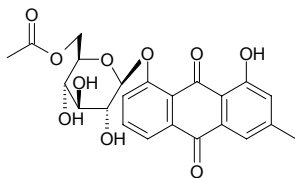
C₁₉H₂₈O₅ (336.43). Source: SHENG JIANG *Zingiber officinale*. Ref: 660.

**400 16-Acetylgitoxigenin**

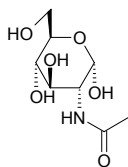
Oleandrogenin [465-15-6] C₂₅H₃₆O₆ (432.56). Crystals (Me₂CO-Et₂O), mp 225~228°C, [α]_D¹⁶ = -9.5° (MeOH). Source: JIA ZHU TAO *Nerium indicum*, QING MING HUA *Beaumontia grandiflora*. Ref: 6, 660, 1521.

**401 8-O- β -D-(6'-O-Acetyl)glucopyranosylchrysophanol**

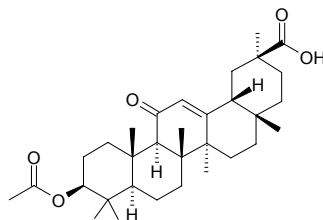
C₂₃H₂₂O₁₀ (458.43). Source: ZANG BIAN DA HUANG *Rheum emodi* [Syn. *Rheum australe*] (root). Ref: 4273.

**402 N-Acetyl-D-glucosamine**

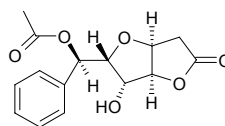
2-Acetyl-amino-2-deoxy-D-glucose [7512-17-6] C₈H₁₅NO₆ (221.21). Source: MA YE *Cannabis sativa*, XIE KE *Eriochloa sinensis*, YUAN ZHI *Polygala tenuifolia*. Ref: 2, 6, 660.

**403 3-O-Acetyl-glycyrrhetic acid**

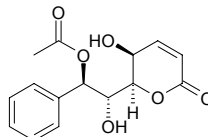
Glycyrrhetic acid acetate C₃₂H₄₈O₅ (512.74). Source: GAN CAO *Glycyrrhiza uralensis*. Ref: 2.

**404 8-Acetyl goniofufurone**

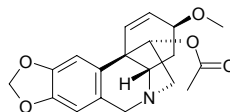
(4S,5R,6S,7S,8R)-6-Hydroxy-7-(α -acetoxybenzyl)-tetrahydrofuro[3,2-b]furan-2-one C₁₅H₁₆O₆ (292.29). Colorless prismatic crystals (acetone), mp 188~189°C. Pharm: Antineoplastic. Source: DA HUA GE NA XIANG *Goniothalamus griffithii*. Ref: 667.

**405 8-O-Acetylgoniotriol**

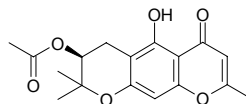
C₁₅H₁₆O₆ (292.29). [α]_D²⁰ = +66.0° (c = 0.39, MeOH). Source: DA HUA GE NA XIANG *Goniothalamus griffithii*. Ref: 5453.

**406 11-O-Acetyl haemanthamine**

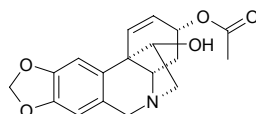
C₁₉H₂₁NO₅ (343.38). mp. 92~96°C, [α]_D²² = 9.1° (c = 0.55, MeOH). Source: YI BI LI YA SHUI XIAN *Narcissus bujei*. Ref: 1887.

**407 3'-O-Acetylhamaudol**

C₁₇H₁₈O₆ (318.33). Source: FANG FENG *Saposhnikovia divaricata* [Syn. *Ledebouria seseloides*]. Ref: 2.

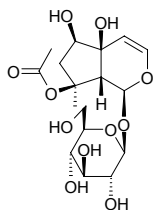
**408 3-O-Acetylhamayne**

C₁₈H₁₉NO₅ (329.36). Pharm: AChE inhibitor (IC₅₀ = (594±8)μmol/L, control Galanthamine, IC₅₀ = (1.9±0.2)μmol/L). Source: LIN JING ZHONG ZI WEN SHU LAN *Crinum bulbispermum*. Ref: 4952.

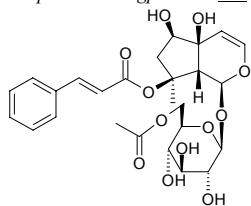


409 8-Acetylharpagide

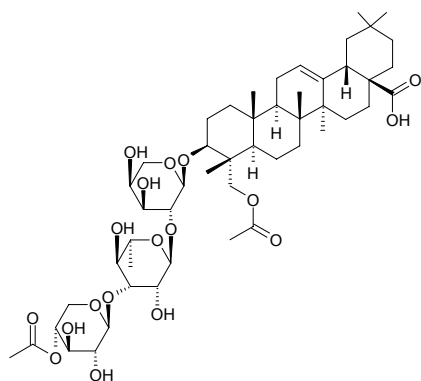
8-*O*-Acetylharpagide C₁₇H₂₆O₁₁ (406.39). White powder. Pharm: Antineoplastic (mus-skin *in vivo*, strongly inhibits EBV-EA induction). Source: BAI MAO XIA KU CAO *Ajuga decumbens*, BO SI YI MU CAO *Leonurus persicus*, LI ZHI HAO *Ajuga forrestii*, LONG TU ZHU *Clerodendrum thomsonae*, PU FU JIN GU CAO *Ajuga reptans*, TAI WAN JIN GU CAO *Ajuga taiwanensis* (whole plant). Ref: 660, 693, 1521, 2499, 4483.

**410 6'-*O*-Acetylharpagoside**

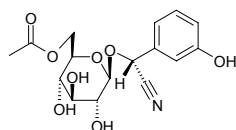
C₂₆H₃₂O₁₂ (536.54). White amorphous powder. Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 781.

**411 23-*O*-Acetylhederagenin 3-*O*-(4-*O*-acetyl-β-*D*-xylopyranosyl)-(1→3)-α-*L*-rhamnopyranosyl-(1→2)-α-*L*-arabinopyranoside**

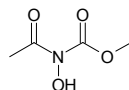
C₅₀H₇₈O₁₈ (967.17). White amorphous powder, [α]_D²² = -10.4° (*c* = 0.7, MeOH). Source: AO TOU WU HUAN ZI *Sapindus emarginatus* (pericarp). Ref: 4123.

**412 6-Acetyl holocalin**

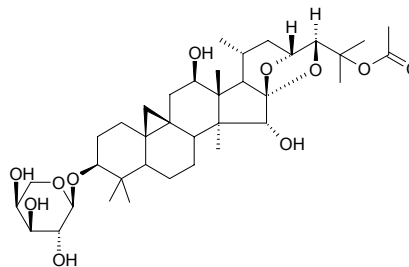
C₁₆H₁₉NO₈ (353.33). Pharm: Plant growth stimulatory or inhibitory activity (radicle length: *Lactuca sativa*, 1 μmol/L, StRt/InRt < 10%, 10 μmol/L, StRt/InRt < 10%, 100 μmol/L, StRt/InRt < 10%, 1 mmol/L, InRt = (10~30)%; *Raphanus sativus*, 1 μmol/L, StRt/InRt < 10%, 10 μmol/L, StRt/InRt < 10%, 100 μmol/L, StRt/InRt < 10%, 1 mmol/L, StRt/InRt < 10%; *Allium cepa*, 1 μmol/L, StRt/InRt < 10%, 10 μmol/L, InRt = (10~30)%, 100 μmol/L, StRt/InRt < 10%, 1 mmol/L, StRt/InRt < 10%). Source: XI YANG JIE GU MU *Sambucus nigra*. Ref: 5217.

**413 *N*-Acetyl-*N*-hydroxy-2-carbamic acid methyl ester**

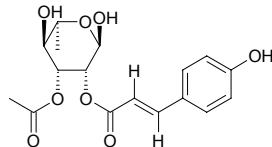
C₄H₇NO₄ (133.10). Source: XIAN MAO *Curculigo orchoides*. Ref: 660.

**414 25-*O*-Acetyl-12β-hydroxycimigenol 3-*O*-α-*L*-arabinopyranoside**

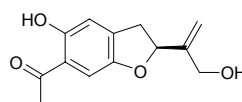
C₃₇H₅₈O₁₁ (678.87). Amorphous solid, [α]_D²⁶ = +26.0° (*c* = 0.10, MeOH). Pharm: Cytotoxic (HSC-2 cells, IC₅₀ = 142 μmol/L, control Etoposide, IC₅₀ = 24 μmol/L; HGF cells, IC₅₀ = 271 μmol/L). Source: ZONG ZHUANG SHENG MA *Cimicifuga racemosa* (rhizome). Ref: 4158.

**415 3-*O*-Acetyl-2-*O*-(*p*-hydroxycinnamoyl)-α-*L*-rhamnose**

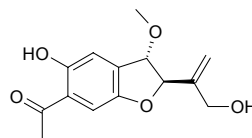
Ningposide C C₁₇H₂₀O₈ (352.34). Oil, [α]_D³⁰ = +79.63° (*c* = 0.38, acetone). Source: XUAN SHEN *Scrophularia ningpoensis*. Ref: 674, 741.

**416 6-Acetyl-5-hydroxy-2-(1-hydroxy-2-propenyl)-2,3-dihydrobenzofuran**

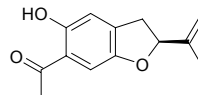
Viscidone C₁₃H₁₄O₄ (234.25). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*, NIAN ZHI JIN ZHI JU *Chrysothamnus viscidiflorus*. Ref: 5374.

**417 6-Acetyl-5-hydroxy-2-(1-hydroxy-2-propenyl)-3-methoxy-2,3-dihydrobenzofuran**

C₁₄H₁₆O₅ (264.28). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*. Ref: 5374.

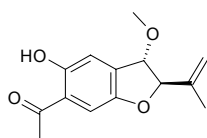
**418 6-Acetyl-5-hydroxy-2-isopropenyl-2,3-dihydrobenzofuran**

C₁₃H₁₄O₃ (218.25). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*, *Trichocline reptans*. Ref: 5374.



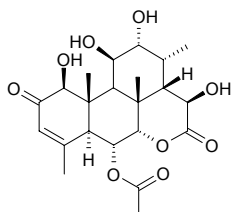
419 6-Acetyl-5-hydroxy-2-isopropenyl-3-methoxy-2,3-dihydrobenzofuran

C₁₄H₁₆O₄ (248.28). Glassy amorphous solid. Source: XIAO SHE JU GEN *Microglossa pyrifolia*, *Acratopappus* spp. Ref: 5374.



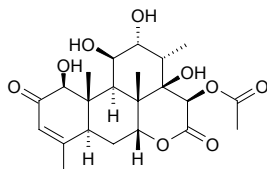
420 6 α -Acetyl-15 β -hydroxyklaineanone

C₂₂H₃₀O₉ (438.48). Source: *Eurycoma* sp. Ref: 4556.



421 15 β -O-Acetyl-14-hydroxyklaineanone

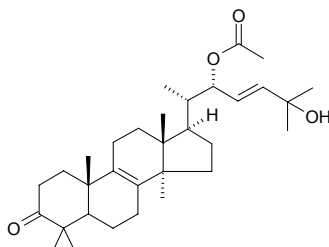
C₂₂H₃₀O₉ (438.48). Pharm: Plant growth inhibitor (Cucumber seedling, root growth, IC₅₀ = (17.6±0.5) μmol/L, shoot growth, IC₅₀ > 200 μmol/L; Rice seedling, root growth, IC₅₀ > 200 μmol/L, shoot growth, IC₅₀ > 200 μmol/L)^[5215]. Source: CHANG YE KUAN MU *Eurycoma longifolia* (leaf), *Eurycoma* sp. Ref: 4556, 5215.



422

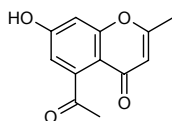
(20*S*,22*S*,23*E*)-22-O-Acetyl-25-hydroxylanosta-8,23(*E*)-dien-3-one

C₃₂H₅₀O₄ (498.75). mp 166~168°C, [α]_D³¹ = +62.1° (*c* = 0.15, CHCl₃). Pharm: Anti-HSV-1 (IC₅₀ = 5.2 μg/mL; control Acyclovir, IC₅₀ = 2.0~5.0 μg/mL); cytotoxic inactive (hmn small cell lung cancer cells NCI-H187). Source: HUANG YING PI MA BO *Scleroderma citrinum*. Ref: 5406.



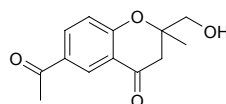
423 5-Acetyl-7-hydroxy-2-methylbenzopyran- γ -one

C₁₂H₁₀O₄ (218.21). Source: DA HUANG *Rheum officinale*. Ref: 2.



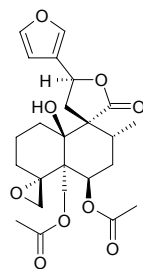
424 6-Acetyl-2-hydroxymethyl-2-methylchroman-4-one

C₁₃H₁₄O₄ (234.25). [α]_D²⁵ = +10.8° (*c* = 0.1, CHCl₃). Pharm: Platelet aggregation inhibitor (washed rabbit platelets, 100 μg/mL, 100 μmol/L AA-induced, AggRt = 10.3%, control 50 μmol/L Aspirin, AggRt = 100%; 10 μg/mL collagen-induced, AggRt = 1.9%, 100 μmol/L Aspirin, AggRt = 4.9%; 0.1 U/mL thrombin-induced, AggRt = 4.9%, 100 μmol/L Aspirin, AggRt = 1.7%; 2 ng/mL PAF-induced, AggRt = 3.6%, 100 μmol/L Aspirin, AggRt = 2.1%). Source: SAN QI CAO *Gynura segetum* [Syn. *Gynura japonica*] (rhizome). Ref: 5427.



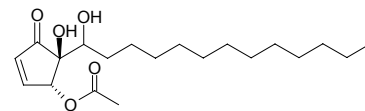
425 6-Acetyl-10-hydroxyteucjaponin B

10-Hydroxymontanin C C₂₄H₃₀O₉ (462.50). White amorphous solid, [α]_D²⁵ = +35.2° (*c* = 0.13, CHCl₃). Pharm: Insect antifeedant (fifth instar larvae of *Spodoptera littoralis*, dual-choice feeding assays, dose = 10 μg/cm², FR₅₀ = 0.08±0.01, dose = 1 μg/cm², FR₅₀ = 0.16±0.02). Source: GUAN CONG XIANG KE KE *Teucrium fruticans*. Ref: 3761.



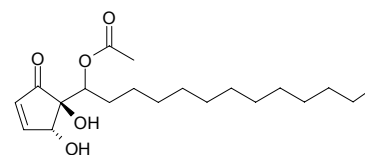
426 4-O-Acetyl hygrophorone A¹²

4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-hydroxytridecyl)-2-cyclopenten-1-one C₂₀H₃₄O₅ (354.49). Colorless oil. Pharm: Antifungal (*Cladosporium cucumerinum*, 20 μg, IZA = 188 mm², 40 μg, IZA = 217 mm²). Source: *Hygrophorus persoonii*. Ref: 3800.



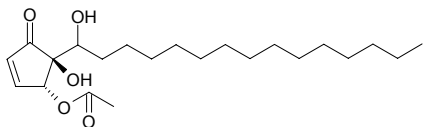
427 6-O-Acetyl hygrophorone A¹²

4,5-*trans*-4,5-Dihydroxy-5-(1-acetoxytridecyl)-2-cyclopenten-1-one C₂₀H₃₄O₅ (354.49). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

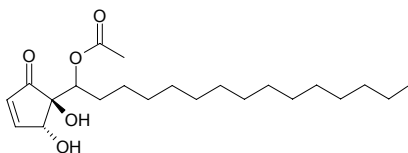


428 4-*O*-Acetyl hygrophorone A¹⁴

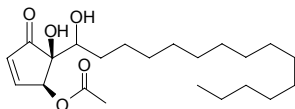
4,5-*trans*-4-Acetoxy-5-hydroxy-5-(1-hydroxypentadecyl)-2-cyclopenten-1-one C₂₂H₃₈O₅ (382.55). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

**429 6-*O*-Acetyl hygrophorone A¹⁴**

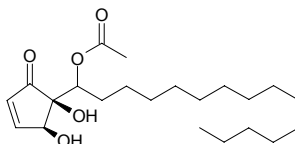
4,5-*trans*-4,5-Dihydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one C₂₂H₃₈O₅ (382.55). Colorless oil. Source: *Hygrophorus persoonii*. Ref: 3800.

**430 4-*O*-Acetyl hygrophorone B¹⁴**

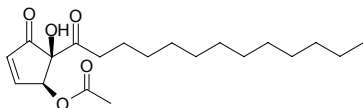
4,5-*cis*-4-Acetoxy-5-hydroxy-5-(1-hydroxypentadecyl)-2-cyclopenten-1-one C₂₂H₃₈O₅ (382.55). Colorless oil. Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

**431 6-*O*-Acetyl hygrophorone B¹⁴**

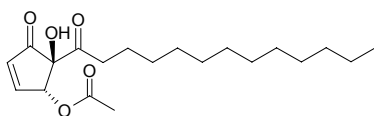
4,5-*cis*-4,5-Dihydroxy-5-(1-acetoxypentadecyl)-2-cyclopenten-1-one C₂₂H₃₈O₅ (382.55). Colorless oil. Source: *Hygrophorus olivaceoalbus*. Ref: 3800.

**432 4-*O*-Acetyl hygrophorone C¹²**

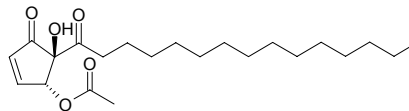
cis-4-Acetoxy-5-hydroxy-5-tridecanoyl-2-cyclopenten-1-one C₂₀H₃₂O₅ (352.48). White solid. Pharm: Antifungal (*Cladosporium cucumerinum*, 20μg, IZA = 86mm², 40μg, IZA = 148mm²). Source: *Hygrophorus pustulatus*. Ref: 3800.

**433 4-*O*-Acetyl hygrophorone D¹²**

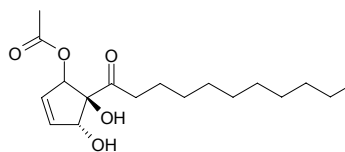
trans-4-Acetoxy-5-hydroxy-5-tridecanoyl-2-cyclopenten-1-one C₂₀H₃₂O₅ (352.48). Color oil, [α]_D²³ = +111.7° (c = 0.470, MeOH). Pharm: Antifungal (*Cladosporium cucumerinum*, 20μg, IZA = 55mm², 40μg, IZA = 82mm²). Source: *Hygrophorus latitabundus*. Ref: 3800.

**434 4-*O*-Acetyl hygrophorone D¹⁴**

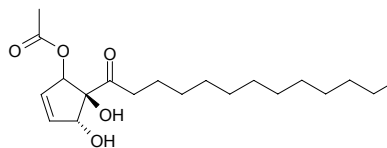
trans-4-Acetoxy-5-hydroxy-5-pentadecanoyl-2-cyclopenten-1-one C₂₂H₃₆O₅ (380.53). Colorless oil, [α]_D²³ = +98.7° (c = 0.475, MeOH). Pharm: Antifungal (*Cladosporium cucumerinum*, 20μg, IZA = 14mm²; 40μg, IZA = 15mm²). Source: *Hygrophorus latitabundus*. Ref: 3800.

**435 1-*O*-Acetyl hygrophorone E¹⁰**

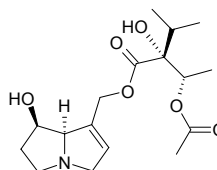
1-(2-Acetoxy-1,5-dihydroxy-cyclopent-3-enyl)-undecan-1-one C₁₈H₃₀O₅ (326.44). Colorless oil. Source: *Hygrophorus latitabundus*. Ref: 3800.

**436 1-*O*-Acetyl hygrophorone E¹²**

1-(2-Acetoxy-1,5-dihydroxy-cyclopent-3-enyl)-tridecan-1-one C₂₀H₃₄O₅ (354.49). Colorless oil. Pharm: Antifungal (*Cladosporium cucumerinum*, 20μg, IZA = 1mm²; 40μg, IZA = 28mm²). Source: *Hygrophorus latitabundus*. Ref: 3800.

**437 Acetyllindicine**

[11014-09-8] C₁₇H₂₇NO₆ (341.41). Source: DA WEI YAO *Heliotropium indicum*. Ref: 6.

**438 Acetyliscocorynoline**

[42881-67-4] C₂₃H₂₃NO₆ (409.44). mp 205~209°C. Source: YUN QIAN HU *Peucedanum rubricaulis*, ZI HUA YU DENG CAO *Corydalis incisa*. Ref: 6, 436.

