



CAS Registry Number: 16830-15-2

Molecular Formula: C₄₈H₇₈O₁₉

Molecular Weight: 959.133

Accurate Mass: 958.513735

Percentage Composition: C 60.11%; H 8.20%; O 31.69%

Biological Source: Constit. of *Centella asiatica*

Biological Use/Importance: Shows antibiotic activity against gram-positive organisms and mycobacteria, particularly *M. tuberculosis*. Antifertility, antileprotic, antitubercular agent. Shows carcinogenic props. Used in wound therapy

Physical Description: Cryst.

Melting Point: Mp 235-238° (230-233°)

Optical Rotation: $[\alpha]_D^{20} -14$ (EtOH)

Solubility: BERDY SOL: Sol. EtOH-H₂O, Py; fairly sol. MeOH, EtOH; poorly sol. H₂O

Calculated Log P Data: Log P -0.48 (uncertain value) (calc)

>>Derivative: 3-*O*- α -L-Arabinopyranoside, 28-*O*- β -D-glucopyranosyl ester

Synonym(s): Ilekudinoside C

CAS Registry Number: 243635-62-3

Molecular Formula: C₄₁H₆₆O₁₄

Molecular Weight: 782.964

Accurate Mass: 782.44526

Percentage Composition: C 62.90%; H 8.50%; O 28.61%

Biological Source: Constit. of *Ilex kudincha*

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_D^{23} +8.6$ (c, 0.66 in MeOH)

>>Derivative: 2-Ac

CAS Registry Number: 32207-05-9

Molecular Formula: C₃₂H₅₀O₆

Molecular Weight: 530.743

Accurate Mass: 530.36074

Percentage Composition: C 72.42%; H 9.50%; O 18.09%

Biological Source: Isol. from *Dipterocarpus pilosus*

Physical Description: Amorph.

>>Derivative: 2,23-Di-Ac

CAS Registry Number: 32207-03-7

Molecular Formula: C₃₄H₅₂O₇

Molecular Weight: 572.781

Accurate Mass: 572.371305

Percentage Composition: C 71.30%; H 9.15%; O 19.55%

Biological Source: Isol. from *Dipterocarpus pilosus*

>>Derivative: 3-(4-Hydroxycinnamoyl)(*E*-)

Molecular Formula: C₃₉H₅₄O₇

Molecular Weight: 634.851

Accurate Mass: 634.386955

Percentage Composition: C 73.79%; H 8.57%; O 17.64%

Biological Source: Constit. of *Actinidia polygama*

Physical Description: Powder