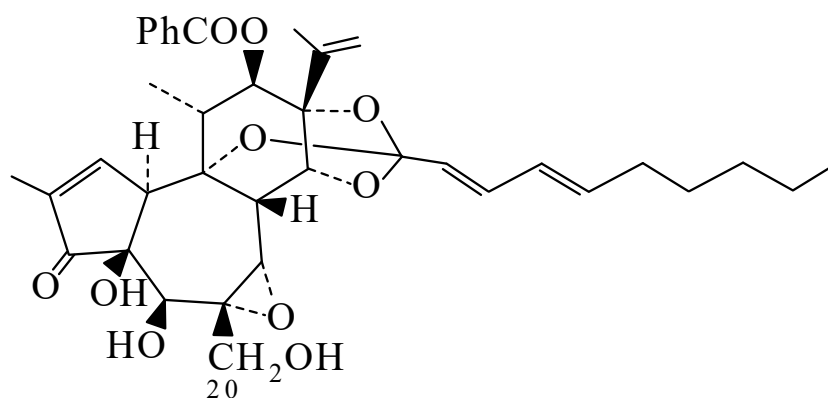




>>Entry Name: Gnidilatidin

Synonym(s): 12-(Benzoyloxy)-22,23,24,25-tetrahydrosimplexin, 9Cl. Odoracin. Stillingia factor S₆. Yuanhuacin. Yuanhuacium ester A



CAS Registry Number: 60195-70-2

Molecular Formula: C₃₇H₄₄O₁₀

Molecular Weight: 648.749

Accurate Mass: 648.29345

Percentage Composition: C 68.50%; H 6.84%; O 24.66%

Biological Source: Constit. of *Gnidia latifolia*, *Daphne odora*, *Daphne genkwa* and *Stillingia sylvatica*

Use/Importance: Antileukaemic agent. Possesses abortifacient props.

Melting Point: Mp 204-206°

Optical Rotation: [α]_D³²+61.7 (CHCl₃)

Solubility: BERDY SOL: Sol. C₆H₆, MeOH; poorly sol. H₂O

Calculated Log P Data: Log P 2.79 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 228 (ϵ 44300) (EtOH) (Derep) [neutral] $\lambda_{\max}$ 232 (ϵ 52700); 266 (ϵ 14500); 280 (ϵ 870) (MeOH) (Berdy) [neutral] $\lambda_{\max}$ 227 (ϵ 44300) (EtOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ipr) 1.7 mg/kg

>>Derivative: 20-Hexadecanoyl

Synonym(s): Gnidilatidin 20-palmitate

CAS Registry Number: 60195-68-8

Molecular Formula: C₅₃H₇₄O₁₁

Molecular Weight: 887.161

Accurate Mass: 886.523115

Percentage Composition: C 71.76%; H 8.41%; O 19.84%

Biological Source: Constit. of *Gnidia latifolia*

Use/Importance: Antileukaemic agent

Physical Description: Oil

Optical Rotation: [α]_D²³+27 (c, 0.15 in CHCl₃)

Calculated Log P Data: Log P 11.1 (uncertain value) (calc)

>>Derivative: Tetrahydro

>>Derivative: 12-Debenzoyl, 12-Ac

Synonym(s): Yuanhuadin

CAS Registry Number: 76402-66-9

Molecular Formula: C₃₂H₄₂O₁₀

Molecular Weight: 586.678

Accurate Mass: 586.2778

Percentage Composition: C 65.51%; H 7.22%; O 27.27%

Biological Source: Constit. of *Daphne genkwa*

Optical Rotation: [α]_D¹⁶+26.9 (c, 0.045 in CHCl₃)

References: