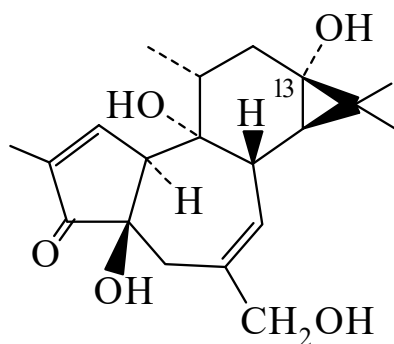




>>Entry Name: 4,9,13,20-Tetrahydroxy-1,6-tigliadien-3-one



Molecular Formula: C₂₀H₂₈O₅

Molecular Weight: 348.438

Accurate Mass: 348.193675

Percentage Composition: C 68.94%; H 8.10%; O 22.96%

>>Variant: (4β,9α,13α)-form

Synonym(s): 12-Deoxyphorbol

Molecular Formula: C₂₀H₂₈O₅

Molecular Weight: 348.438

Accurate Mass: 348.193675

Percentage Composition: C 68.94%; H 8.10%; O 22.96%

Biological Source: Occurs as esters in *Euphorbia* spp.

>>Derivative: 13-Ac

Synonym(s): Prostratin. Stillingia factor S₇

CAS Registry Number: 60857-08-1

Molecular Formula: C₂₂H₃₀O₆

Molecular Weight: 390.475

Accurate Mass: 390.20424

Percentage Composition: C 67.67%; H 7.74%; O 24.58%

Biological Source: Isol. from *Pimelea prostrata* and from stem wood of *Homolanthus nutans* (Euphorbiaceae)

Use/Importance: Shows anti-HIV activity. Non tumour-promoting deriv. which inhibits biological responses of other phorbol esters *via* protein kinase C antagonism

Physical Description: Cryst.

Melting Point: Mp 217-218°

Optical Rotation: [α]_D +64 (c, 0.13 in MeOH)

Calculated Log P Data: Log P -0.81 (calc)

UV: [neutral] λ_{max} 210 (ε 8900); 236 (ε 5900) (EtOH) (Berdy)

Hazard & Toxicity: Toxic

>>Derivative: 13,20-Di-Ac

Physical Description: Cryst.

Melting Point: Mp 138°

>>Derivative: 13-Octanoyl

Synonym(s): Mellerin A

CAS Registry Number: 213037-33-3

Molecular Formula: C₂₈H₄₂O₆

Molecular Weight: 474.636

Accurate Mass: 474.29814

Percentage Composition: C 70.86%; H 8.92%; O 20.23%

Biological Source: Constit. of *Neoboutonia melleri*

Physical Description: Gum

Optical Rotation: [α]_D²⁵ +40.3 (c, 5.3 in Me₂CO)

UV: [neutral] λ_{max} 235 (log ε 3.74) (MeOH)