



Optical Rotation: $[\alpha]_{\text{D}} -32.1$ (c, 0.15 in MeOH)

>>Derivative: 15-Carboxylic acid

Synonym(s): 3 β -Hydroxy-8(17),13*E*-labdadien-15-oic acid. **Alepteroic acid**

CAS Registry Number: 63399-38-2

Molecular Formula: C₂₀H₃₂O₃

Molecular Weight: 320.471

Accurate Mass: 320.235145

Percentage Composition: C 74.96%; H 10.06%; O 14.98%

Biological Source: Isol. from fern *Cheilanthes argentea*

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 157.5-158.5°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +40.7$ (c, 0.2 in CHCl₃)

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

>>Derivative: 15-Carboxylic acid, 3-Ac

Synonym(s): 3 β -Acetoxy-8(17),13*E*-labdadien-15-oic acid

CAS Registry Number: 63399-37-1

Molecular Formula: C₂₂H₃₄O₄

Molecular Weight: 362.508

Accurate Mass: 362.24571

Percentage Composition: C 72.89%; H 9.45%; O 17.65%

Biological Source: Constit. of *Metasequoia glyptostroboides*

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 161-162°

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

>>Variant: (*ent*-3 β ,13*E*)-form

Molecular Formula: C₂₀H₃₄O₂

Molecular Weight: 306.487

Accurate Mass: 306.25588

Percentage Composition: C 78.38%; H 11.18%; O 10.44%

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 161-163°

Optical Rotation: $[\alpha]_{\text{D}}^{18} -29$ (c, 0.56 in CHCl₃)

>>Derivative: 3,15-Di-*O*- β -D-glucopyranoside

Synonym(s): Goshonoside F7

Molecular Formula: C₃₂H₅₄O₁₂

Molecular Weight: 630.771

Accurate Mass: 630.36153

Percentage Composition: C 60.93%; H 8.63%; O 30.44%

Biological Source: Constit. of *Rubus foliolosus* and *Rubus chingii*

Physical Description: Powder

Optical Rotation: $[\alpha]_{\text{D}}^{18} -47.7$ (c, 0.55 in MeOH)

>>Derivative: 15-Carboxylic acid

Synonym(s): *ent*-3 β -Hydroxy-8(17),13-labdadien-15-oic acid

Molecular Formula: C₂₀H₃₂O₃

Molecular Weight: 320.471

Accurate Mass: 320.235145

Percentage Composition: C 74.96%; H 10.06%; O 14.98%

Biological Source: Constit. of the Copaiba tree

>>Derivative: 3-Ketone

Synonym(s): *ent*-15-Hydroxy-8(17),13-labdadien-3-one