



Molecular Formula: C₃₂H₅₄O₂
Molecular Weight: 470.777
Accurate Mass: 470.41238
Percentage Composition: C 81.64%; H 11.56%; O 6.80%
Biological Source: From *Pinus sitchensis*
Physical Description: Cryst. by subl.
Melting Point: Mp 254-256°

>>Derivative: 21-Ketone
Synonym(s): 3-Hydroxy-14-serraten-21-one

Molecular Formula: C₃₀H₄₈O₂
Molecular Weight: 440.708
Accurate Mass: 440.36543
Percentage Composition: C 81.76%; H 10.98%; O 7.26%
Biological Source: Isol. from *Pinus monticola*
Melting Point: Mp 251-253° (as acetate)
Optical Rotation: [α]_D²⁵ -67 (c, 0.6 in CHCl₃) (acetate)

>>Derivative: 21-Ketone, 3-Me ether
Synonym(s): 3 α -Methoxy-14-serraten-21-one. Cathaya B

CAS Registry Number: 19897-36-0

Molecular Formula: C₃₁H₅₀O₂
Molecular Weight: 454.735
Accurate Mass: 454.38108
Percentage Composition: C 81.88%; H 11.08%; O 7.04%
Biological Source: Isol. from *Pinus sitchensis*
Physical Description: Cryst. by subl.
Melting Point: Mp 240-242°
Optical Rotation: [α]_D²⁰ -70.6 (CHCl₃)

>>Variant: (3 β ,21 α)-form
Synonym(s): Serratenediol. Pinusenediol. Cathaya D

CAS Registry Number: 2239-24-9

Molecular Formula: C₃₀H₅₀O₂
Molecular Weight: 442.724
Accurate Mass: 442.38108
Percentage Composition: C 81.39%; H 11.38%; O 7.23%
Biological Source: Constit. of the club moss *Lycopodium serratum* and *Pinus* spp.. Also found in *Picea* spp.
Physical Description: Cryst. (EtOH)
Melting Point: Mp 302.5-304.5° (275-279°)
Optical Rotation: [α]_D²² -19 (c, 0.9 in CHCl₃)

>>Derivative: 3-O- α -L-Arabinopyranoside
Synonym(s): Inundoside A

CAS Registry Number: 80235-56-9

Molecular Formula: C₃₅H₅₈O₆
Molecular Weight: 574.84
Accurate Mass: 574.42334
Percentage Composition: C 73.13%; H 10.17%; O 16.70%
Biological Source: Constit. of *Lycopodium inundatum*
Physical Description: Needles (CHCl₃/MeOH)
Melting Point: Mp 300°