



Molecular Formula: C₁₃H₁₆O₅
Molecular Weight: 252.266
Accurate Mass: 252.099775
Percentage Composition: C 61.90%; H 6.39%; O 31.71%
Biological Source: Constit. of *Goniothalamus leiocarpus*
Physical Description: Cryst. (MeOH)
Melting Point: Mp 131-132°
Optical Rotation: $[\alpha]_{\text{D}}^{24} -63.5$ (c, 0.5 in MeOH)
UV: [neutral] λ_{max} 207 (log ϵ 2.9) (MeOH)

>> **Derivative:** 5 β -Hydroxy

Synonym(s): Goniotriol

CAS Registry Number: 96405-62-8

Molecular Formula: C₁₃H₁₄O₅
Molecular Weight: 250.251
Accurate Mass: 250.084125
Percentage Composition: C 62.39%; H 5.64%; O 31.97%
Biological Source: From *Goniothalamus* spp.
Physical Description: Flakes (MeOH)
Melting Point: Mp 173°
Optical Rotation: $[\alpha]_{\text{D}}^{30} +161.11$ (Py)
UV: [neutral] λ_{max} 215 (ϵ 6610) (MeOH) (Derep) [neutral] λ_{max} 215 (ϵ 6600) (MeOH) (Berdy)

>> **Derivative:** 5 β -Hydroxy, 2'-Ac

Synonym(s): 8-Acetylgoniotriol

CAS Registry Number: 129578-08-1

Molecular Formula: C₁₅H₁₆O₆
Molecular Weight: 292.288
Accurate Mass: 292.09469
Percentage Composition: C 61.64%; H 5.52%; O 32.84%
Biological Source: Constit. of *Goniothalamus giganteus*
Physical Description: Cryst. (EtOAc/hexane)
Melting Point: Mp 158-159°
Optical Rotation: $[\alpha]_{\text{D}}^{22} +30$ (c, 0.4 in EtOH)
UV: [neutral] λ_{max} 206 (ϵ 8320) (EtOH) (Derep) [neutral] λ_{max} 206 (ϵ 9250) (MeOH) (Berdy)

>> **Derivative:** 5 β -Hydroxy, 2'-*O*-cinnamoyl(*E*-)

Synonym(s): Howiinol A

CAS Registry Number: 190848-69-2
Extra CAS Registry Numbers(s): 200722-95-8

Molecular Formula: C₂₂H₂₀O₆
Molecular Weight: 380.396
Accurate Mass: 380.12599
Percentage Composition: C 69.46%; H 5.30%; O 25.24%
Biological Source: Constit. of *Goniothalamus howii*
Biological Use/Importance: Antitumour agent
Melting Point: Mp 178-180° (176-178°)
Optical Rotation: $[\alpha]_{\text{D}}^{18} +98.7$ (c, 0.2 in CHCl₃)