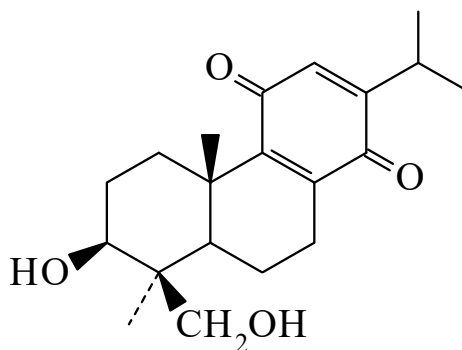




>>Entry Name: 3,19-Dihydroxy-8,12-abietadiene-11,14-dione



Molecular Formula: C₂₀H₂₈O₄

Molecular Weight: 332.439

Accurate Mass: 332.19876

Percentage Composition: C 72.26%; H 8.49%; O 19.25%

>>Variant: 3β-form

Synonym(s): Triptoquinondiol. Triptoquinone C

CAS Registry Number: 142937-49-3

Molecular Formula: C₂₀H₂₈O₄

Molecular Weight: 332.439

Accurate Mass: 332.19876

Percentage Composition: C 72.26%; H 8.49%; O 19.25%

Biological Source: Constit. of *Tripterygium regelii*

Physical Description: Golden needles

Melting Point: Mp 183-184°

Optical Rotation: [α]_D¹⁵ -49.3 (c, 0.31 in CHCl₃). [α]_D²⁰ -63 (c, 0.3 in CHCl₃)

UV: [neutral] λ_{max} 258 (ε 14000) (MeOH) (Derep)

Other Data: Triptoquinondiol and Triptoquinone C not compared. The higher opt. rotn. is attributed to Triptoquinone C

>>Derivative: 3-Ketone

Synonym(s): 19-Hydroxy-8,12-abietadiene-3,11,14-trione. **Triptoquinone B.** 3-Oxotriptoquinonol

CAS Registry Number: 142937-50-6

Molecular Formula: C₂₀H₂₆O₄

Molecular Weight: 330.423

Accurate Mass: 330.18311

Percentage Composition: C 72.70%; H 7.93%; O 19.37%

Biological Source: Constit. of *Tripterygium regelii* and *Tripterygium wilfordii*

Physical Description: Golden needles

Melting Point: Mp 135-136°

Optical Rotation: [α]_D¹⁵ +158.8 (c, 0.86 in CHCl₃). [α]_D +336 (c, 0.21 in CHCl₃)

UV: [neutral] λ_{max} 258 (ε 14000) (MeOH) (Derep) [neutral] λ_{max} 260 (); 330 (); 460 () (MeOH) (Berdy)

Other Data: Triptoquinone B and 3-Oxotriptoquinonol not compared

References:

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Takaishi, Y. *et al.*, *Tet. Lett.*, 1992, **33**, 7177, (*Triptoquinone B*)

Shishido, K. *et al.*, *Chem. Comm.*, 1993, 793, (*synth*)

Shishido, K. *et al.*, *Phytochemistry*, 1994, **35**, 731, (*Triptoquinone B, Triptoquinone C*)

Yamamura, I. *et al.*, *Tet. Lett.*, 1997, **38**, 4121-4124, (*synth*)