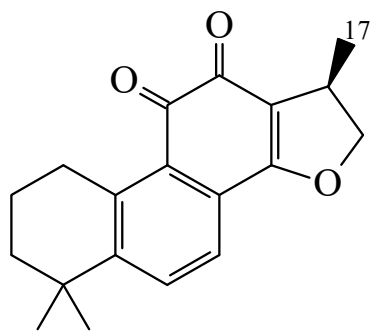




>>Entry Name: 14,16-Epoxy-20-nor-5(10),6,8,13-abietatetraene-11,12-dione



Related CAS Registry Numbers(s): 4783-35-1

Molecular Formula: C₁₉H₂₀O₃

Molecular Weight: 296.365

Accurate Mass: 296.141245

Percentage Composition: C 77.00%; H 6.80%; O 16.20%

>>Variant: (R)-form

Synonym(s): Cryptotanshinone

CAS Registry Number: 35825-57-1

Molecular Formula: C₁₉H₂₀O₃

Molecular Weight: 296.365

Accurate Mass: 296.141245

Percentage Composition: C 77.00%; H 6.80%; O 16.20%

Biological Source: Isol. from root of *Salvia miltiorrhiza* and from *Rosmarinus officinalis*

Physical Description: Red cryst.

Melting Point: Mp 182°

Optical Rotation: $[\alpha]_{\text{D}}^{21} -91.4$ (CHCl₃)

UV: [neutral] λ_{max} 263 (ε 29000); 271 (ε 25700); 292 (ε 8900); 293 (ε 8912); 353 (ε 2511); 355 (ε 2560); 445 (ε 2300); 460 (ε 3020) (MeOH) (Berdy) [neutral] λ_{max} 221 (); 263 (); 272 (); 290 (); 355 (); 447 () (EtOH) (Berdy)

>>Derivative: 17-Hydroxy

Synonym(s): 17-Hydroxycryptotanshinone

CAS Registry Number: 145940-77-8

Molecular Formula: C₁₉H₂₀O₄

Molecular Weight: 312.365

Accurate Mass: 312.13616

Percentage Composition: C 73.06%; H 6.45%; O 20.49%

Biological Source: Isol. from *Salvia munzii* and *Meriandra benghalensis*

Physical Description: Reddish solid or red plates (MeOH)

Melting Point: Mp 165-167°

Optical Rotation: $[\alpha]_{\text{D}}^{18} -17.9$ (c, 0.11 in CHCl₃)

Other Data: Has (S)-config.

>>Variant: (±)-form

Molecular Formula: C₁₉H₂₀O₃

Molecular Weight: 296.365

Accurate Mass: 296.141245

Percentage Composition: C 77.00%; H 6.80%; O 16.20%

Physical Description: Orange-brown needles

Melting Point: Mp 174-175°

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Tateishi, M. *et al.*, *Tetrahedron*, 1971, **27**, 237, (*synth*)

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Romanova, A.S. *et al.*, *Khim. Prir. Soedin.*, 1977, **13**, 414; *Chem. Nat. Compd. (Engl. Transl.)*, 1977, **13**, 350, (*isol*)

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