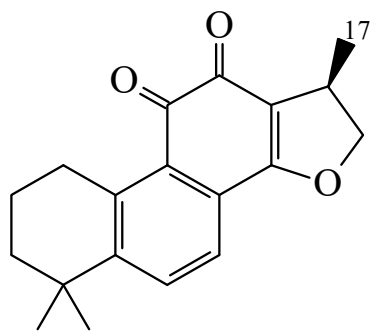




>>Entry Name: 14,16-Epoxy-20-nor-5(10),6,8,13-abietatetraene-11,12-dione



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: [α]_D²¹ -91.4 (CHCl₃)

UV: [neutral] $\lambda_{\max}$ 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] $\lambda_{\max}$ 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: [α]_D¹⁸ -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*)
Brieskorn, C.H. *et al.*, *Planta Med.*, 1973, **24**, 190, (*isol*)
Romanova, A.S. *et al.*, *Khim. Prir. Soedin.*, 1977, **13**, 414; *Chem. Nat. Compd. (Engl. Transl.)*, 1977, **13**, 350, (*isol*)
Tomita, Y. *et al.*, *Chem. Comm.*, 1987, 1311, (*biosynth, abs config*)
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Danheiser, R.L. *et al.*, *J.O.C.*, 1995, **60**, 8341, (*synth*)