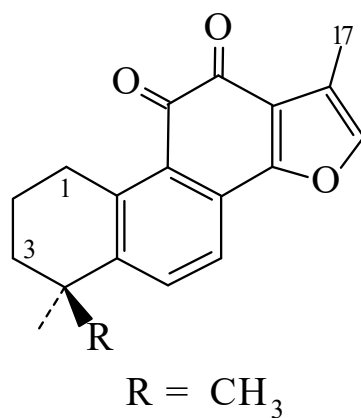




>>Entry Name: Tanshinone II

Synonym(s): 6,7,8,9-Tetrahydro-1,6,6-trimethylphenanthro[1,2-*b*]furan-10,11-dione, 9Cl. 14,16-Epoxy-20-nor-5(10),6,8,13,15-abietapentaene-11,12-dione. Tanshinone IIA



CAS Registry Number: 568-72-9

Molecular Formula: $C_{19}H_{18}O_3$

Molecular Weight: 294.349

Accurate Mass: 294.125595

Percentage Composition: C 77.53%; H 6.16%; O 16.31%

Biological Source: Pigment from the root of *Salvia miltiorrhiza*

Physical Description: Bright red needles (EtOH)

Melting Point: Mp 216° (198-200°)

UV: [neutral] λ_{max} 224 (); 225 (ϵ 20500); 251 (ϵ 20000); 252 (); 268 (ϵ 25700); 269 (); 350 (ϵ 16600); 352 (); 460 () (MeOH) (Berdy) [neutral] λ_{max} 225 (ϵ 19500); 251 (ϵ 20400); 268 (ϵ 26300); 348 (ϵ 1740); 460 (ϵ 2950) (EtOH) (Berdy)

>>Derivative: 1,2-Didehydro

Synonym(s): 1,2-Didehydrotanshinone II. Δ^1 -Dehydrotanshinone II

CAS Registry Number: 119963-50-7

Molecular Formula: $C_{19}H_{16}O_3$

Molecular Weight: 292.334

Accurate Mass: 292.109945

Percentage Composition: C 78.06%; H 5.52%; O 16.42%

Biological Source: Constit. of *Salvia miltiorrhiza* and *Salvia przewalskii*. Component of Dan Shen

Physical Description: Cryst.

Melting Point: Mp 147-148°

>>Derivative: 1-Hydroxy

Synonym(s): 1-Hydroxy-14,16-epoxy-20-nor-5(10),6,8,13,15-abietapentaene-11,12-dione. Hydroxytanshinone

CAS Registry Number: 18887-18-8

Molecular Formula: $C_{19}H_{18}O_4$

Molecular Weight: 310.349

Accurate Mass: 310.12051

Percentage Composition: C 73.53%; H 5.85%; O 20.62%

Biological Source: Minor constit. of *Salvia miltiorrhiza* and *Salvia sclarea*

Melting Point: Mp 187°

Optical Rotation: $[\alpha]_D$ 0

UV: [neutral] λ_{max} 224 (); 252 (); 269 (); 352 (); 460 () (MeOH) (Berdy) [neutral] λ_{max} 222 (); 252 (); 273 (); 348 (); 462 () (EtOH) (Berdy)

>>Derivative: 3 α -Hydroxy

Synonym(s): 3 α -Hydroxy-14,16-epoxy-20-nor-5(10),6,8,13,15-abietapentaene-11,12-dione. 3 α -Hydroxytanshinone IIA

CAS Registry Number: 97399-71-8

Molecular Formula: $C_{19}H_{18}O_4$

Molecular Weight: 310.349

Accurate Mass: 310.12051

Percentage Composition: C 73.53%; H 5.85%; O 20.62%

Biological Source: Constit. of *Salvia miltiorrhiza*

Physical Description: Cryst. (CHCl₃/MeOH)

Melting Point: Mp 205-206°