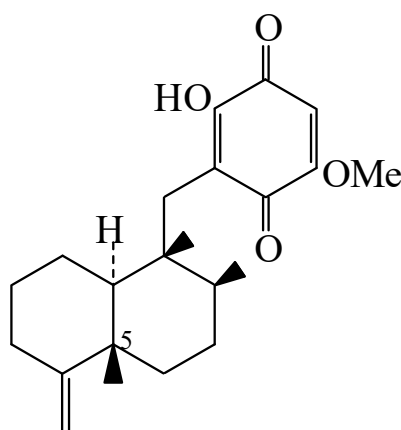




>>Entry Name: Ilimaquinone



Absolute
configuration

CAS Registry Number: 71678-03-0

Molecular Formula: C₂₂H₃₀O₄

Molecular Weight: 358.477

Accurate Mass: 358.21441

Percentage Composition: C 73.71%; H 8.43%; O 17.85%

Biological Source: Constit. of *Hippiospongia metachromia* and *Smenospongia* spp.

Use/Importance: Shows anti-HIV activity. Induces the vesiculation of Golgi membranes

Physical Description: Cryst. (hexane)

Melting Point: Mp 113-114°

Optical Rotation: [α]_D²³ -23.2 (c, 1.12 in CHCl₃)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O

Calculated Log P Data: Log P 5.78 (calc)

UV: [neutral] $\lambda_{\max}$ 214 (ϵ 10500); 286 (ϵ 13200); 435 (ϵ 537) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 214 (ϵ 10500); 286 (ϵ 13200); 435 (ϵ 536) (MeOH) (Berdy) [acid] $\lambda_{\max}$ 204 (ϵ 10200); 285 (ϵ 16300); 425 (ϵ 790) (MeOH-HCl) (Berdy) [neutral] $\lambda_{\max}$ 287 (ϵ 16200); 420 (ϵ 575) (CHCl₃) (Berdy)

Sigma: I7146

>>Derivative: 5-Epimer

Synonym(s): 5-Epiilimaquinone

CAS Registry Number: 96806-31-4

Molecular Formula: C₂₂H₃₀O₄

Molecular Weight: 358.477

Accurate Mass: 358.21441

Percentage Composition: C 73.71%; H 8.43%; O 17.85%

Biological Source: Constit. of a *Fenestraspongia* sp. and *Dactylospongia elegans*

Optical Rotation: [α]_D +29.8 (c, 0.4 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 214 (ϵ 10500); 286 (ϵ 13200); 435 (ϵ 537) (MeOH) (Derep)

>>Derivative: O-De-Me

Synonym(s): Smenoquinone

CAS Registry Number: 121994-50-1

Molecular Formula: C₂₁H₂₈O₄

Molecular Weight: 344.45

Accurate Mass: 344.19876

Percentage Composition: C 73.23%; H 8.19%; O 18.58%

Biological Source: Constit. of *Smenospongia* sp.

Physical Description: Cryst.

Melting Point: Mp 350°

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O, hexane

UV: [neutral] $\lambda_{\max}$ 214 (ϵ 10500); 286 (ϵ 13200); 435 (ϵ 537) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 214 (); 286 () (EtOH) (Berdy)

References: