

Product Data Sheet

Product Name: Nirvanol
Cat. No.: GC49501

Chemical Properties

Cas. No. 631-07-2

SMILES O=C(N1)C(C2=CC=CC=C2)(CC)NC1=O

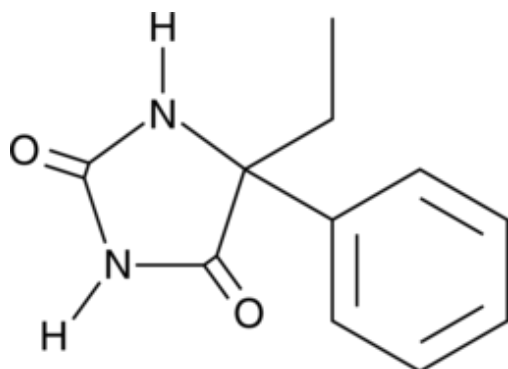
Formula C₁₁H₁₂N₂O₂ M.Wt 204.2

Solubility DMSO: soluble Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Nirvanol is an active metabolite of mephentyoin, a substrate of the cytochrome P450 (CYP) isoform CYP2C19 with anticonvulsant activities.¹ It blocks the hind leg tonic extensor phase in a mouse model of seizures induced by maximal electroshock (MES; ED₅₀ = 30 mg/kg).

Caution: Product has not been fully validated for medical applications. For research use only.

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1.Kupferberg, H.J., and Yonekawa, W.The metabolism of 3-methyl-5-ethyl-5-phenylhydantoin (mephentoin) to 5-ethyl-5-phenylhydantoin (nirvanol) in mice in relation to anticonvulsant activityDrug Metab. Dispos.3(1)26-29(1975)

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