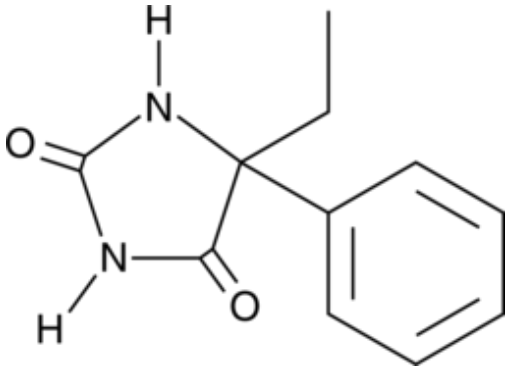
Product Data Sheet

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 mephenytoin, 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; ED_{50} = 30 mg/kg).

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

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