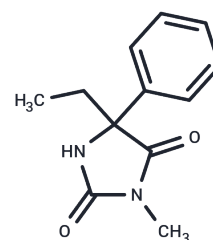


Mephenytoin

Chemical Properties

CAS No. :	50-12-4
Formula:	C ₁₂ H ₁₄ N ₂ O ₂
Molecular Weight:	218.25
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Mephenytoin (Phenanthoin) is an anticonvulsant and a substrate of CYP2C19 and CYP2B6.
Targets(IC50)	P450

Solubility Information

Solubility	DMSO: 38 mg/ml(174.11 mM) H ₂ O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5819 mL	22.9095 mL	45.819 mL
5 mM	0.9164 mL	4.5819 mL	9.1638 mL
10 mM	0.4582 mL	2.291 mL	4.5819 mL
50 mM	0.0916 mL	0.4582 mL	0.9164 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Vijayabhaskar V, Srivastava P, Rajagopal S. Breaking the sensitivity limitations of cytochrome P450 oxidation product: dansyl chloride derivatisation of 4-OH mephenytoin, a CYP2C19 metabolite and its application to in vitro

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