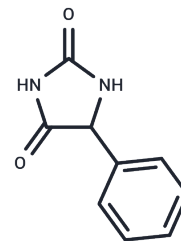


Phenylhydantoin

Chemical Properties

CAS No. :	89-24-7
Formula:	C ₉ H ₈ N ₂ O ₂
Molecular Weight:	176.17
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	5-Phenylhydantoin (5-Phenylhydantoin) is a metabolite of Mephentyoin. 5-Phenylhydantoin has been shown to bind to voltage-dependent sodium channels (NVSC) and has anti-epileptic properties.
Targets(IC50)	Others, Drug Metabolite

Solubility Information

Solubility	DMSO: 30 mg/mL (170.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.6763 mL	28.3817 mL	56.7634 mL
5 mM	1.1353 mL	5.6763 mL	11.3527 mL
10 mM	0.5676 mL	2.8382 mL	5.6763 mL
50 mM	0.1135 mL	0.5676 mL	1.1353 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Maguire JH, Hypolipidemic activity of antiepileptic 5-phenylhydantoin in mice. Eur J Pharmacol. 1985 Oct 29;117(1):135-8.
- Brown ML, et al. Effects of log P and phenyl ring conformation on the binding of 5-phenylhydantoin to the voltage-dependent sodium channel. J Med Chem. 1997 Feb 14;40(4):602-7.
- Serra R, et al. J Inflamm (Lond). 2010 Sep 15;7:48.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481