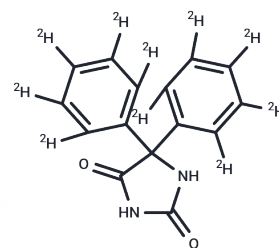


Phenytoin-D10

Chemical Properties

CAS No. :	65854-97-9
Formula:	C ₁₅ H ₂ D ₁₀ N ₂ O ₂
Molecular Weight:	262.33
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	Phenytoin-D10 is a deuterated isotope-labelled phenytoin for isotope tracing. Phenytoin (T0939) acts as a voltage-gated Na ⁺ channel blocker and t-type Ca ²⁺ channel inhibitor, exhibiting antiepileptic activity.
Targets(IC50)	Calcium Channel, Sodium Channel, Virus Protease

Solubility Information

Solubility	DMSO: 40 mg/mL (152.48 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	3.812 mL	19.060 mL	38.1199 mL
5 mM	0.7624 mL	3.812 mL	7.624 mL
10 mM	0.3812 mL	1.906 mL	3.812 mL
50 mM	0.0762 mL	0.3812 mL	0.7624 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

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