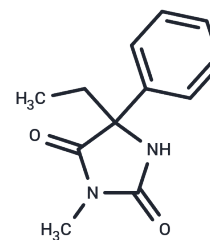


## (S)-Mephenytoin

## Chemical Properties

CAS No. :	70989-04-7
Formula:	C <sub>12</sub> H <sub>14</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	218.25
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	(S)-Mephenytoin ((+)-Mephenytoin) is an anticonvulsant that serves as a substrate of the cytochrome P450 (CYP) isoform CYP2C19 and is used to analyze cytochrome P450 metabolism.
Targets(IC50)	Others,Cytochromes P450
In vivo	In the presence of cytochrome b5, the Km?for S-mephenytoin is 1.25 mM with all five purified cytochrome P-450s preparations[1].

## Solubility Information

Solubility	DMSO: 75 mg/mL (343.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (22.91 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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.

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