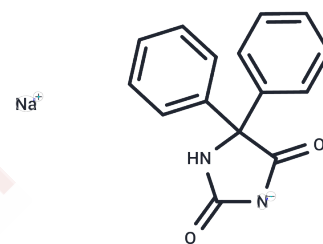


## Phenytoin sodium

## Chemical Properties

CAS No. :	630-93-3
Formula:	C <sub>15</sub> H <sub>11</sub> N <sub>2</sub> NaO <sub>2</sub>
Molecular Weight:	274.25
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	Phenytoin sodium (Diphantoine) is an inactive stabilizer for voltage-gated sodium channel .
Targets(IC50)	Sodium Channel,Virus Protease

## Solubility Information

Solubility	Ethanol: 9 mg/mL (32.82 mM),Sonication is recommended. DMSO: 13.16 mg/mL (47.99 mM),Sonication is recommended. H2O: 3 mg/mL (10.94 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.32 mg/mL (4.81 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.65 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	3.6463 mL	18.2315 mL	36.4631 mL
5 mM	0.7293 mL	3.6463 mL	7.2926 mL
10 mM	0.3646 mL	1.8232 mL	3.6463 mL
50 mM	0.0729 mL	0.3646 mL	0.7293 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.

#### Reference

Lenkowski PW, et al. Eur J Pharm Sci. 2004 Apr;21(5):635-44.

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