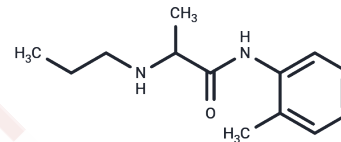


Prilocaine

Chemical Properties

CAS No. :	721-50-6
Formula:	C ₁₃ H ₂₀ N ₂ O
Molecular Weight:	220.31
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	Prilocaine (NSC-40027) is a local anesthetic of the amino amide type, which acts on the sodium channel on the neuronal membrane and limits the spread of seizures.
Targets(IC50)	ATPase,Sodium Channel

Solubility Information

Solubility	Ethanol: 41 mg/mL (186.1 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 45 mg/mL (204.26 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: 2 mg/mL (9.08 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

	1mg	5mg	10mg
1 mM	4.5391 mL	22.6953 mL	45.3906 mL
5 mM	0.9078 mL	4.5391 mL	9.0781 mL
10 mM	0.4539 mL	2.2695 mL	4.5391 mL
50 mM	0.0908 mL	0.4539 mL	0.9078 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

Eriksson E. Prilocaine. Acta Chir Scand Suppl. 1966;358:1-82.

Juhlin L, et al. EMLA: a new topical anesthetic. Adv Dermatol. 1990;5:75-91; discussion 92.

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