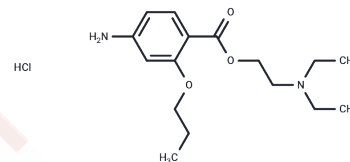


Propoxycaine hydrochloride

Chemical Properties

CAS No. :	550-83-4
Formula:	C ₁₆ H ₂₇ ClN ₂ O ₃
Molecular Weight:	330.85
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	Propoxycaine hydrochloride, an ester local anesthetic, inhibits voltage-gated sodium channels, modulates nerve impulses, and can induce sensory loss. Propoxycaine hydrochloride modulates the flow of lipid bilayers in SPMVs.
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	DMSO: 60 mg/mL (181.35 mM), Sonication is recommended. H ₂ O: 80 mg/mL (241.8 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 (6.05 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	3.0225 mL	15.1126 mL	30.2252 mL
5 mM	0.6045 mL	3.0225 mL	6.045 mL
10 mM	0.3023 mL	1.5113 mL	3.0225 mL
50 mM	0.0605 mL	0.3023 mL	0.6045 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

Kato S, et al. Induction of secondary metabolite production by hygromycin B and identification of the 1233A biosynthetic gene cluster with a self-resistance gene. J Antibiot (Tokyo). 2020 Jul;73(7):475-479.

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