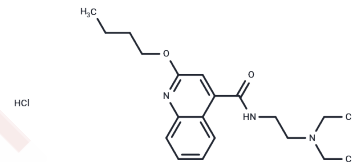


Dibucaine hydrochloride

Chemical Properties

CAS No. :	61-12-1
Formula:	C ₂₀ H ₃₀ ClN ₃ O ₂
Molecular Weight:	379.92
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	Dibucaine hydrochloride (Cinchocaine hydrochloride), a long-acting local amide anesthetics, is usually used for surface anesthesia.
Targets(IC50)	AChR,Sodium Channel
In vitro	Dibucaine (Cinchocaine) HCl is one of the most potent and toxic of the long-acting local anesthetics. [1] Dibucaine (Cinchocaine) HCl blocks both the initiation and conduction of nerve impulses by decreasing the neuronal membrane's permeability to sodium ions. This reversibly stabilizes the membrane and inhibits depolarization, resulting in the failure of a propagated action potential and subsequent conduction blockade. [2]

Solubility Information

Solubility	Ethanol: 71 mg/mL (186.88 mM),Sonication is recommended. H ₂ O: 70 mg/mL (184.25 mM),Sonication is recommended. DMSO: 60 mg/mL (157.93 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 (5.26 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	2.6321 mL	13.1607 mL	26.3213 mL
5 mM	0.5264 mL	2.6321 mL	5.2643 mL
10 mM	0.2632 mL	1.3161 mL	2.6321 mL
50 mM	0.0526 mL	0.2632 mL	0.5264 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

Elig A. Biochim Biophys Acta, 1987, 899(2), 196-204.

Strichartz G. Sthesiology, 1976, 45(4), 421-441.

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