Data Sheet (Cat.No.T0364L)

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Dibucaine hydrochloride

Chemical Properties

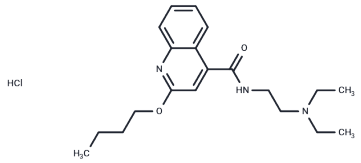
CAS No. : 61-12-1

Formula: C20H30ClN3O2

Molecular Weight: 379.92

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Dibucaine hydrochloride (Cinchocaine hydrochloride), a long-acting local amide anestheticsis, is usually used for surface anesthesia.
Targets(IC50)	Sodium Channel,AChR
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 (186.9 mM), H2O: 70 mg/mL (184.2 mM), DMSO: 71 mg/mL (186.9 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

Reference

Elig A. Biochim Biophys Acta, 1987, 899(2), 196-204.
Strichartz G. Sthesiology, 1976, 45(4), 421-441.

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