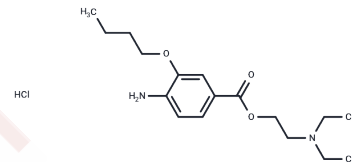


Oxybuprocaine hydrochloride

Chemical Properties

CAS No. : 5987-82-6
 Formula: C₁₇H₂₉ClN₂O₃
 Molecular Weight: 344.88
 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	Oxybuprocaine hydrochloride (Oxybuprocaine HCl), a local anesthetic, is used especially in otolaryngology and ophthalmology.
Targets(IC50)	Sodium Channel
In vivo	Similar to bupivacaine or lidocaine, Oxybuprocaine produces dose-related spinal cord blockade of proprioception, locomotion, and injury perception. Oxybuprocaine binds to sodium channels and reversibly stabilizes neuronal cell membranes to make them less permeable to sodium ions. Oxybuprocaine inhibits the depolarization of neuronal cell membranes, thereby Oxybuprocaine inhibits the depolarization of neuronal cell membrane, thus blocking the initiation and conduction of nerve impulses.

Solubility Information

Solubility	Ethanol: 64 mg/mL (185.57 mM), Sonication is recommended. H ₂ O: 63 mg/mL (182.67 mM), Sonication is recommended. DMSO: 64 mg/mL (185.57 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 (5.8 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	2.8996 mL	14.4978 mL	28.9956 mL
5 mM	0.5799 mL	2.8996 mL	5.7991 mL
10 mM	0.290 mL	1.4498 mL	2.8996 mL
50 mM	0.058 mL	0.290 mL	0.5799 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

Hung CH, et al. Neurosci Lett, 2009, 454(3), 249-253.

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