

Pramocaine hydrochloride

Chemical Properties

CAS No. : 637-58-1

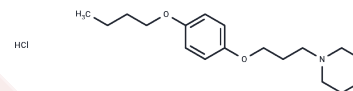
Formula: C17H27NO3·HCl

Molecular Weight: 329.86

Keep away from moisture

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	Pramocaine hydrochloride (Pramoxine HCl), a topical anesthetic, is served as an antipruritic.
Targets(IC50)	Others,Sodium Channel
In vitro	When administered to canines exhibiting dyspnea (breathing difficulty) and tremors, Pramoxine elicited specific changes in skin temperature at which the activation and suppression of panting and shivering occur. These changes are thought to be mediated by peripheral nerves that control the terminal mechanisms of thermoregulation. In studies on guinea pig ileum, Pramoxine (1.7 mM) demonstrated a lesser reduction in response to Substance P compared to its effects on responses to acetylcholine, BaCl ₂ , and histamine. Pramoxine has been identified as having anesthetic inhibitory potency, with a pKa of 6.4 in guinea pig ileum.
In vivo	Pramoxine is frequently used in conjunction with Hydrocortisone, Colloidal oatmeal, Menthol, and Petrolatum.

Solubility Information

Solubility	DMSO: 75 mg/mL (227.37 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 (6.06 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	3.0316 mL	15.1579 mL	30.3159 mL
5 mM	0.6063 mL	3.0316 mL	6.0632 mL
10 mM	0.3032 mL	1.5158 mL	3.0316 mL
50 mM	0.0606 mL	0.3032 mL	0.6063 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

Rosenkrantz W, et al. Clin Tech Small Anim Pract, 2006, 21(3), 106-116.

Bury RW, et al. J Pharmacol Exp Ther, 1976, 197(3), 633-640.

HELMENDACH RH, et al. Am J Physiol, 1962, 202, 1237-1240.

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