

Dyclonine hydrochloride

Chemical Properties

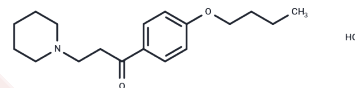
CAS No. : 536-43-6

Formula: C₁₈H₂₇NO₂·HCl

Molecular Weight: 325.87

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	Dyclonine hydrochloride (Dyclonine HCl) , an over the counter throat lozenge, is found in Sucrets with local anesthetic effect .
Targets(IC50)	Antibacterial,Antifungal,Dehydrogenase,Sodium Channel

Solubility Information

Solubility	H ₂ O: 21.74 mg/mL (66.71 mM),Sonication is recommended. Ethanol: 34 mg/mL (104.34 mM),Sonication is recommended. DMSO: 16.67 mg/mL (51.16 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 (6.14 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	3.0687 mL	15.3435 mL	30.6871 mL
5 mM	0.6137 mL	3.0687 mL	6.1374 mL
10 mM	0.3069 mL	1.5344 mL	3.0687 mL
50 mM	0.0614 mL	0.3069 mL	0.6137 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

Tella SR, Goldberg SR. Pharmacol Biochem Behav. 1998 Feb;59(2):305-12.

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