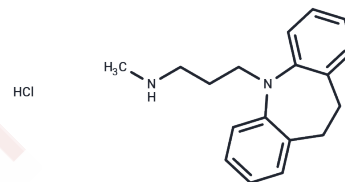


Desipramine hydrochloride

Chemical Properties

CAS No. :	58-28-6
Formula:	C ₁₈ H ₂₃ ClN ₂
Molecular Weight:	302.84
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	Desipramine hydrochloride (Norimipramine) ,a secondary amine tricyclic antidepressant (TCA), is the hydrochloride salt form of desipramine. In the central nervous system (CNS), Desipramine hydrochloride blocks the re-uptake of neurotransmitters, including norepinephrine and serotonin. This leads to an increase in the amount of these neurotransmitters in the synaptic cleft and prolongs their activities postsynaptically.
Targets(IC50)	5-HT Receptor,Adrenergic Receptor,Dopamine Receptor,Serotonin Transporter

Solubility Information

Solubility	DMSO: 252.00 mg/mL (832.12 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: 3.3 mg/mL (10.9 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	3.3021 mL	16.5104 mL	33.0207 mL
5 mM	0.6604 mL	3.3021 mL	6.6041 mL
10 mM	0.3302 mL	1.651 mL	3.3021 mL
50 mM	0.066 mL	0.3302 mL	0.6604 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

Zavosh A, et al. Brain Res Bull. 1999 Jul 1;49(4):291-5.

Zhang X, Yan F, Tang K, et al. Identification of a clinical compound losmapimod that blocks Lassa virus entry. Antiviral Research. 2019 Apr 4;167:68-77

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