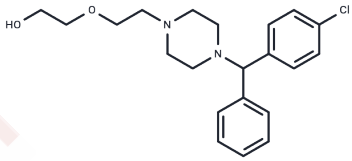
Data Sheet (Cat.No.T20884)

TargetMol

Hydroxyzine

Chemical Properties



CAS No. : 68-88-2

Formula: C21H27ClN2O2

Molecular Weight: 374.9

Storage: Keep away from moisture
Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Hydroxyzine (Hydroxyzine free base) is an antagonist of histamine H1-receptor.
Targets(IC50)	Histamine Receptor
In vitro	Hydroxyzine is an antihistaminic with sedative properties used in the control of anxiety and emesis.

Solubility Information

Solubility	DMSO: 250 mg/mL (666.84 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 (5.33 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (26.67 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6674 mL	13.3369 mL	26.6738 mL
5 mM	0.5335 mL	2.6674 mL	5.3348 mL
10 mM	0.2667 mL	1.3337 mL	2.6674 mL
50 mM	0.0533 mL	0.2667 mL	0.5335 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

Mcintyre I M , Mallett P , Trochta A , et al. Hydroxyzine distribution in postmortem cases and potential for redistribution[J]. Forensic ence International, 2013, 231(1-3):28-33.
Knych H K , Weiner D , Steinmetz S , et al. Pharmacokinetics of hydroxyzine and cetirizine following oral administration of hydroxyzine to exercised Thoroughbred horses[J]. Journal of Veterinary Pharmacology and Therapeutics, 2019, 42(8).