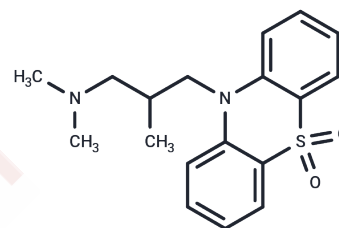


OXOMEMAZINE

Chemical Properties

CAS No. :	3689-50-7
Formula:	C ₁₈ H ₂₂ N ₂ O ₂ S
Molecular Weight:	330.44
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	Oxomemazine is a phenothiazine-based histamine H ₁ -receptor blocker with pronounced antimuscarinic activity. It is a selective antagonist of mycotoxins M1 receptors, exhibiting high (K _i =84 nM, M1 receptors) and low (K _i =1.65 μM, M2 receptors) affinity, with a 20-fold difference. Oxomemazine is an antihistamine and anticholinergic agent used in cough studies[1][2].
Targets(IC ₅₀)	GluR,AChR,Histamine Receptor

Solubility Information

Solubility	Ethanol: 10 mg/mL (30.26 mM),Sonication is recommended. DMSO: 30 mg/mL (90.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0263 mL	15.1313 mL	30.2627 mL
5 mM	0.6053 mL	3.0263 mL	6.0525 mL
10 mM	0.3026 mL	1.5131 mL	3.0263 mL
50 mM	0.0605 mL	0.3026 mL	0.6053 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

- S W Lee, et al.Selectivity of oxomemazine for the M1 muscarinic receptors.Arch Pharm Res. 1994 Dec;17(6):443-51.
M S Siddegowda, et al.Oxomemazine hydro-chloride. Acta Crystallogr Sect E Struct Rep Online. 2011 Aug 1;67(Pt 8):o1875.

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