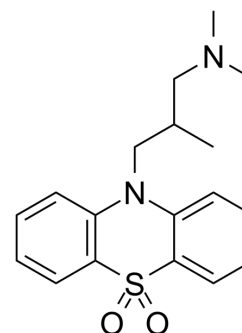


Oxomemazine

Cat. No.:	HY-136587		
CAS No.:	3689-50-7		
Molecular Formula:	C ₁₈ H ₂₂ N ₂ O ₂ S		
Molecular Weight:	330.44		
Target:	Histamine Receptor; mGluR		
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (302.63 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Oxomemazine is a phenothiazine-based histamine H₁-receptor blocker with pronounced antimuscarinic properties. Oxomemazine is a selective antagonist for muscarinic M₁ receptor, displays about 20-fold difference in the affinity for high (K_i = 84 nM, M₁ receptor) and low (K_i = 1.65 μM, M₂ receptor) affinity sites^[1]. Oxomemazine an antihistamine and anticholinergic agent used for the study of cough treatment^[2].

IC₅₀ & Target

H ₁ Receptor	mGluR 1 84 nM (K _i)	mGluR2 1.65 μM (K _i)
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REFERENCES

[1]. S W Lee, et al. Selectivity of oxomemazine for the M₁ muscarinic receptors. Arch Pharm Res. 1994 Dec;17(6):443-51.

[2]. M S Siddegowda, et al. Oxomemazine hydro-chloride. Acta Crystallogr Sect E Struct Rep Online. 2011 Aug 1;67(Pt 8):o1875.

Caution: Product has not been fully validated for medical applications. For research use only.

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