Mequitazine

Cat. No.: HY-B2168 CAS No.: 29216-28-2 Molecular Formula: $\mathsf{C}_{20}\mathsf{H}_{22}\mathsf{N}_2\mathsf{S}$ Molecular Weight: 322.47

Target: Histamine Receptor

Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 2 years

> -20°C 1 year



Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 16 mg/mL (49.62 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.1011 mL	15.5053 mL	31.0106 mL
	5 mM	0.6202 mL	3.1011 mL	6.2021 mL
	10 mM	0.3101 mL	1.5505 mL	3.1011 mL

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

BIOLOGICAL ACTIVITY

Description	Mequitazine is a potent, and long-acting histamine H_1 antagonist.	
In Vitro	Mequitazine is a potent H_1 -receptors selective antihistaminic drug widely studied and used for allergic disorders such as hay fever and urticaria ^[1] . Mequitazine demonstrates significant bactericidal effects against all the tested clinical isolates including Ps. aeruginosa. Its effect against the Gram-positive isolates is more pronounced ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Mequitazine and clemizole antagonize the effect of histamine in guinea-pig ileum competitively. Mequitazine at 10 ⁷ produces a parallel shift of the dose-response curve to acetylcholine in the rat duodenum. Mequitazine at highest concentration shows anticholinergic activity ^[3] . Mequitazine inhibits contractile responses to KCl, phenylephrine (PE), 5-hydroxytryptamine (5-HT), and Ca ²⁺ in rat aorta ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

- [1]. Gonnot V, et al. Expedient synthesis of mequitazine an antihistaminic drug by palladium catalyzed allylic alkylation of sodium phenothiazinate. Chem Pharm Bull (Tokyo). 2009 Nov;57(11):1300-2.
- [2]. El-Nakeeb MA, et a. In vitro antibacterial activity of some antihistaminics belonging to different groups against multi-drug resistant clinical isolates. Braz J Microbiol. 2011 Jul;42(3):980-91.
- [3]. Martinez-Mir I, et al. Antihistaminic and anticholinergic activities of mequitazine in comparison with clemizole. J Pharm Pharmacol. 1988 Sep;40(9):655-6.
- [4]. Satake N, et al. Possible mechanisms of vasoinhibitory effects of mequitazine, an antiallergic agent, on the contractions of isolated rat aorta induced by K+, phenylephrine, 5-hydroxytryptamine, and Ca2+. J Cardiovasc Pharmacol. 1994 Apr;23(4):669-73.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Page 2 of 2 www.MedChemExpress.com