



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: 美噻他嗪
产品别名: Mequitazine; LM-209

生物活性:				
Description	Mequitazine is a potent, nonsedative 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].			
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].			
Solvent&Solubility	In Vitro: DMSO : 16 mg/mL (49.62 mM; Need ultrasonic and warming)			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	3.1011 mL	15.5053 mL
	Stock Solutions	5 mM	0.6202 mL	3.1011 mL
		10 mM	0.3101 mL	1.5505 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
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 al. 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 vasoconstrictory effects of mequitazine, an antiallergic agent, on the contractions of isolated rat aorta induced by K ⁺ , phenylephrine, 5-hydroxytryptamine, and Ca ²⁺ . J Cardiovasc Pharmacol. 1994 Apr;23(4):669-73.			