

Dimethindene

Chemical Properties

CAS No. : 5636-83-9

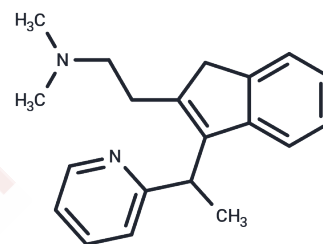
Formula: C₂₀H₂₄N₂

Molecular Weight: 292.42

Store at low temperature

Storage: 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	Dimethindene (Dimetindeno) is a selective antagonist of H1 receptor and blocks K ⁺ current. Dimethindene exhibits antihistamine and anticholinergic effects.
Targets(IC ₅₀)	Endogenous Metabolite,AChR,Histamine Receptor,Potassium Channel
In vitro	In follicle-enclosed <i>Xenopus</i> oocytes, Dimethindene (5-500 μM) decreases Cromakalim cromakalim-induced K ⁺ currents (IC ₅₀ = 29.5 μM)[1].
In vivo	In C57BL/6 mice with skin wound healing, Dimethindene (0.25 mg; i.p.) impairs cutaneous wound healing and delays skin wound closure[2].

Solubility Information

Solubility	DMSO: 55 mg/mL (188.09 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	3.4197 mL	17.0987 mL	34.1974 mL
5 mM	0.6839 mL	3.4197 mL	6.8395 mL
10 mM	0.342 mL	1.7099 mL	3.4197 mL
50 mM	0.0684 mL	0.342 mL	0.6839 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

Sakuta H. Inhibition by histamine H1 receptor antagonists of endogenous glibenclamide-sensitive K⁺ channels in follicle-enclosed *Xenopus* oocytes. *Eur J Pharmacol.* 1994 Jan 1;266(1):99-102.

Weller K, et, al. Mast cells are required for normal healing of skin wounds in mice. *FASEB J.* 2006 Nov;20(13):2366-8.

Mikus P, et al. Determination of dimethindene enantiomers in pharmaceuticals by capillary electrophoresis with carboxyethyl-beta-cyclodextrin. *Pharmazie.* 2007 Jan;62(1):31-3.

Schaffler K, et al. Dimethindene maleate in the treatment of sunburn. A double-blind, placebo-controlled pilot study. *Arzneimittelforschung.* 1999 Apr;49(4):374-9.

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