Dimethindene maleate

Cat. No.:	HY-13710A
CAS No.:	3614-69-5
Molecular Formula:	C ₂₄ H ₂₈ N ₂ O ₄
Molecular Weight:	408.49
Target:	Endogenous Metabolite; Histamine Receptor
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
P	Preparing Stock Solutions	1 mM	2.4480 mL	12.2402 mL	24.4804 mL
		5 mM	0.4896 mL	2.4480 mL	4.8961 mL
		10 mM	0.2448 mL	1.2240 mL	2.4480 mL

BIOLOGICAL ACTIV	
Description	Dimethindene maleate is a selective histamine H1 antagonist with antihistamine effects. Dimethindene maleate can be used for the research of hypersensitivity reactions ^{[1][2][3]} .
IC ₅₀ & Target	IC50: 29.5 μ M (cromakalim-induced K ^{III} currents), 49 μ M (Y-26763-induced K ^{III} currents) ^[2]
In Vitro	Dimethindene maleate (1-1000 μM) suppresses the cromakalim-induced/glibenclamide-sensitive K [®] currents in a concentration-dependent and reversible manner with an IC ₅₀ value of 29.5 μM ^[2] . Dimethindene maleate (1-1000 μM) inhibits Y-26763-induced glibenclamide-sensitive K [®] currents with an IC ₅₀ value of 49 μM ^[2] . ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Dimethindene maleate (0.25 mg; i.p. once) affects wound healing in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Animal Model:	C57BL/6 mice with wound healing ^[1]
Dosage:	0.25 mg
Administration:	Intraperitoneal injection; 0.25 mg once
Result:	Significantly delayed skin wound and only showed wound closure impairment in the initia phase wound healing.

REFERENCES

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

[2]. 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.

[3]. Towart R, et al. Investigation of the antihistaminic action of dimethindene maleate (Fenistil) and its optical isomers. Agents Actions Suppl. 1991;33:403-8.

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

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