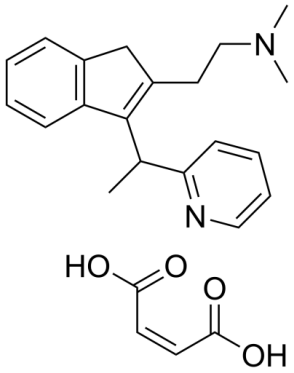
Data Sheet

Product Name:	Dimethindene (maleate)
Cat. No.:	CS-0015467
CAS No.:	3614-69-5
Molecular Formula:	$C_{24}H_{28}N_2O_4$
Molecular Weight:	408.49
Target:	Endogenous Metabolite; Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Metabolic Enzyme/Protease; Neuronal Signaling
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

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]. IC50 & Target:IC50: 29.5 μM (cromakalim-induced K^+ currents), 49 μM (Y-26763-induced K^+ 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]. **In Vivo:**Dimethindene maleate (0.25 mg; i.p. once) affects wound healing in mice[1].

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.

CAIndexNames:

1H-Indene-2-ethanamine, N,N-dimethyl-3-[1-(2-pyridinyl)ethyl]-, (2Z)-2-butenedioate (1:1)

SMILES:

CC(C1=C(CCN(C)C)CC2=C1C=CC=C2)C3=NC=CC=C3.O=C(O)/C=C\C(O)=O

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

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