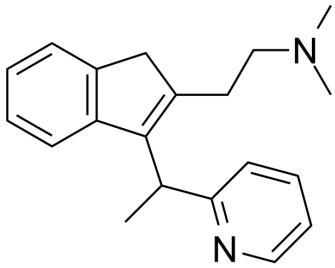
Dimethindene

Cat. No.:	HY-13710
CAS No.:	5636-83-9
Molecular Formula:	$C_{20}H_{24}N_2$
Molecular Weight:	292.42
Target:	Endogenous Metabolite; Histamine Receptor; Potassium Channel
Pathway:	Metabolic Enzyme/Protease; GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dimethindene is a potent, selective histamine H1 antagonist. Dimethindene impairs cutaneous wound healing (WH). Dimethindene can block K^+ currents[1][2].
In Vitro	Dimethindene (5-500 μM; follicle-enclosed Xenopus oocytes) decreases Cromakalim cromakalim-induced K^+ currents with an IC_{50} value of 29.5 μM[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Dimethindene (0.25 mg; i.p.; once; C57BL/6 mice with skin WH) impaires cutaneous wound healing (WH) and delays skin wound closure[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57BL/6 mice with skin WH[1]
Dosage:	0.25 mg
Administration:	intraperitoneal injection; once
Result:	Delayed skin wound closure as compared to vehicle treated mice.

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.

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