
Product Data Sheet

Product Name: Dimethindene maleate

Cat. No.: GC66445

Chemical Properties

Cas. No. 3614-69-5

Formula $C_{24}H_{28}N_2O_4$ M.Wt 408.49

Solubility DMSO : 125 mg/mL (306.01 mM; Need ultrasonic) Storage Store at -20°C, protect from light, stored under nitrogen

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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]}.

Dimethindene maleate (1-1000 μ M) suppresses the cromakalim-induced/glibenclamide-sensitive K^+ currents in a concentration-dependent and reversible manner with an IC_{50} value of 29.5 μ M^[2].

Dimethindene maleate (1-1000 μ M) inhibits Y-26763-induced glibenclamide-sensitive K^+ currents with an IC_{50} value of 49 μ M^[2].

Dimethindene maleate (0.25 mg; i.p. once) affects wound healing in mice^[1].

Animal Model: C57BL/6 mice with wound healing^[1]

Dosage: 0.25 mg

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

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Administration: Intraperitoneal injection; 0.25 mg once

Result: Significantly delayed skin wound and only showed wound closure impairment in the initial phase wound healing.

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