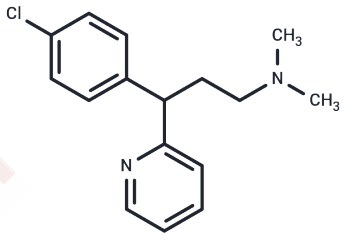
Data Sheet (Cat.No.T60498)

TargetMol

Chlorpheniramine

Chemical Properties



CAS No. : 132-22-9

Formula: C16H19ClN2

Molecular Weight: 274.79

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Chlorpheniramine is an H1 anti-histamine agent for IgE-mediated inflammation that is commonly used for allergic diseases.
Targets(IC50)	Others,Histamine Receptor
In vitro	Chlorpheniramine inhibits proton currents in murine microglial BV2 cells with an IC50 of 43 μM. A concentration of 100 μM for 5 minutes resulted in moderate potency inhibition of proton currents [1].
In vivo	Chlorpheniramine administered intramuscularly (IM) at dosages of 50, 100, and 200 μg/kg, three times at weekly intervals, was observed to increase the count of white blood cells in the peripheral blood of Sprague-Dawley (SD) rats [2]. This elevation in white blood cells was primarily attributed to an increase in B cells and monocytes, with no significant impact on T cells and NK cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6391 mL	18.1957 mL	36.3914 mL
5 mM	0.7278 mL	3.6391 mL	7.2783 mL
10 mM	0.3639 mL	1.8196 mL	3.6391 mL
50 mM	0.0728 mL	0.3639 mL	0.7278 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.

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