Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Chlorpheniramine (maleate)

Catalog No: tcsc2299

Available Sizes

Size: 1g

Size: 5g

Specifications

CAS No:
113-92-8

Formula:
$C_{20}H_{23}ClN_2O_4$

Pathway:
Immunology/Inflammation;GPCR/G Protein

Target:
Histamine Receptor;Histamine Receptor

Purity / Grade:
>98%

Solubility:
DMSO : 195 mg/mL (498.90 mM; Need ultrasonic and warming)

Alternative Names:
Chlorphenamine maleate

Observed Molecular Weight:
390.86

Product Description

Chlorpheniramine maleate is an histamine H1 receptor antagonist with IC50 of 12 nM.

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Target: Histamine H1 Receptor

Chlorpheniramine inhibits the proliferation of MCF-7, MDA-MB 231, and Ehrlich cells in a dose-response manner, and significantly reduces the ornithine decarboxylase mRNA translation by 50%-70% at the 250 μM [1]. Chlorpheniramine displaces of [3H]pyrilamine from human histamine receptor subtype 1 expressed in CHO cells with IC50 of 66 nM. Chlorpheniramine displays antimalarial activity against CQS strain (D6) and MDR strain (Dd2) of P. falciparum with IC50 of 61.2 uM and 3.9 uM, respectively. Chlorpheniramine displays cytotoxicity against the proliferation of concanavalin A-induced murine splenic lymphocytes with IC50 of 33.4 μM [2].

Oral administration of Chlorpheniramine inhibits histamine-induced mortality in guinea pigs with an ED50 of 0.17 mg/kg [3]. Oral administration of Chlorpheniramine (10 mg/kg) significantly inhibits short-duration scratching in BALB/c mice stimulated by ovalbumin active cutaneous anaphylaxis and in ICR mice subcutaneously injected with histamine, but not long-duration scratching seen in NC/Nga mice, in contrast to that of dexamethasone or tacrolimus [4].