

# 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

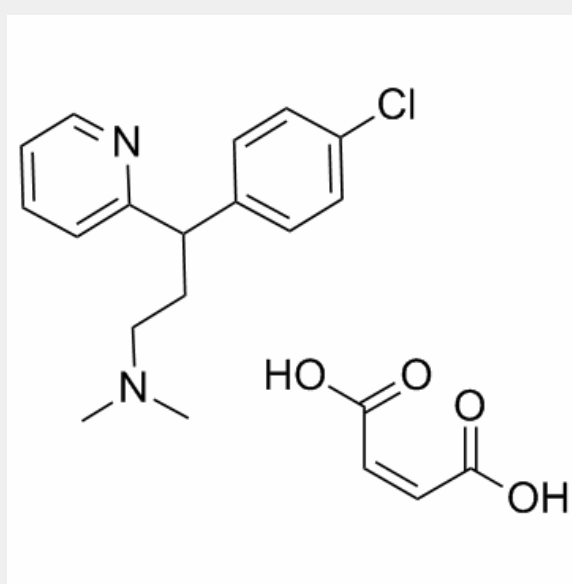
## Product Description

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

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  $\mu$ M [1]. Chlorpheniramine displaces of [3H]pyrilamine from human histamine receptor subtype 1 expressed in CHO cells with IC<sub>50</sub> of 66 nM. Chlorpheniramine displays antimalarial activity against CQS strain (D6) and MDR strain (Dd2) of *P. falciparum* with IC<sub>50</sub> of 61.2  $\mu$ M and 3.9  $\mu$ M, respectively. Chlorpheniramine displays cytotoxicity against the proliferation of concanavalin A-induced murine splenic lymphocytes with IC<sub>50</sub> of 33.4  $\mu$ M [2].

Oral administration of Chlorpheniramine inhibits histamine-induced mortality in guinea pigs with an ED<sub>50</sub> 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].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!