

Clemastine (fumarate)

Catalog No: tcsc2331



Available Sizes

Size: 100mg

Size: 200mg

Size: 500mg



Specifications

CAS No:

14976-57-9

Formula:

$C_{25}H_{30}ClNO_5$

Pathway:

Immunology/Inflammation;GPCR/G Protein;Autophagy

Target:

Histamine Receptor;Histamine Receptor;Autophagy

Purity / Grade:

>98%

Solubility:

DMSO : 14.29 mg/mL (31.07 mM; Need ultrasonic)

Alternative Names:

HS-592 (fumarate);Meclastine (fumarate)

Observed Molecular Weight:

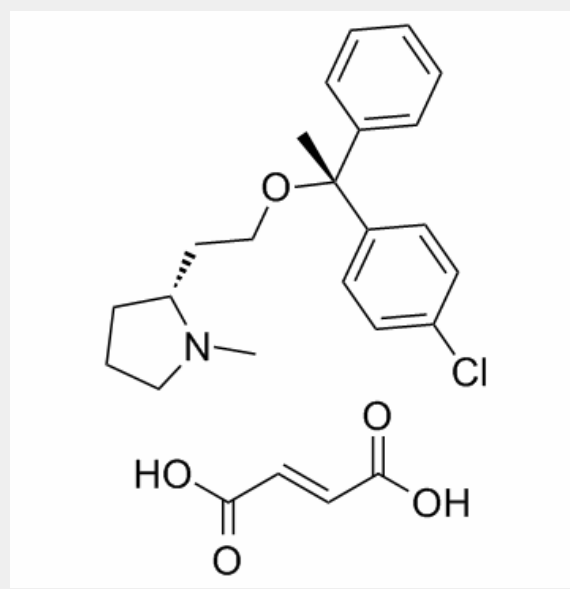
459.96

Product Description

Clemastine Fumarate is a selective histamine H1 receptor antagonist with IC₅₀ of 3 nM.

Target: Histamine H1 Receptor

Clemastine Fumarate inhibits histamine induced rise in [Ca²⁺]_i in HL-60 cells with an IC₅₀ of 3 nM as compared with that of chlorpheniramine or diphenhydramine with IC₅₀ values of 20 nM and 100 nM, respectively [1]. Clemastine showed a first-pass reduction in the extent of absorption, with oral bioavailability calculated as 39.2 +/- 12.4%. Extravascular distribution of drug was suggested by the high volume of distribution (799 +/- 315 L) and low C_{max} (0.577 +/- 0.252 ng/mL/mg) observed at 4.77 +/- 2.26 hours after administration, and by the biphasic decline in plasma concentration. The terminal elimination half-life (t_{1/2}) of clemastine was 21.3 +/- 11.6 hours. Steady-state concentrations of clemastine were consistent with linear pharmacokinetic processes, and clearance was unaffected by age in the range studied, or by race [2].



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