

Nizatidine

Catalog No: tcsc2350



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

76963-41-2

Formula:

$C_{12}H_{21}N_5O_2S_2$

Pathway:

Immunology/Inflammation;GPCR/G Protein

Target:

Histamine Receptor;Histamine Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

331.46

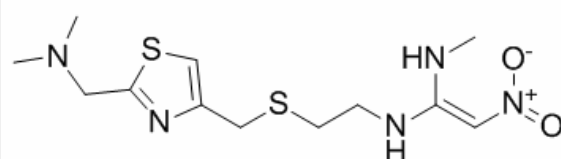
Product Description

Nizatidine is a histamine H2 receptor antagonist with low toxicity that inhibits gastric acid secretion.

Target: Histamine H2 Receptor

Nizatidine, a selective histamine H2-receptor antagonist, is a potent inhibitor of gastric acid secretion, with IC50 of 0.9 nM. Nizatidine exhibits maximal inhibition of gastric acid in rats within the first hour of drug administration, with EC50 of 1.383 μ mol/kg [1].

Nizatidine also reversibly inhibits acetylcholinesterase (AChE), with IC₅₀ of 6.7 μ M, and the inhibition is noncompetitive, with a K_i value of 7.4 μ M. Nizatidine (0.3-3 mg/kg, i.v.) significantly increases the motor index of gastrointestinal (GI) motility in a dose-dependent manner. Nizatidine inhibits gastric acid secretion with ED₅₀ and ED₉₀ of 0.18 and 3.22 mg/kg in dogs, and 2.94 and 19.6 mg/kg in rats, respectively [2].



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