

Lavoltidine

Chemical Properties

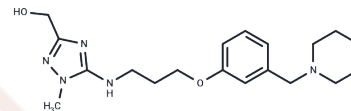
CAS No. : 76956-02-0

Formula: C19H29N5O2

Molecular Weight: 359.47

Storage: Store at low temperature, Keep away from moisture
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	Lavoltidine (Loxidine) is a potent and selective H ₂ receptor antagonist, orally active and irreversible, that inhibits gastric acid secretion and is used in the treatment of gastroesophageal reflux disease.
Targets(IC50)	Histamine Receptor
In vivo	Methods: Lavoltidine (0.5 g/L, in drinking water, oral) was administered to mice, and gastric acid output of INS-GAS mice infected with H felis for 3 months was examined using the pyloric ligation method. Results: Lavoltidine treatment for 3 months significantly suppressed gastric acid output in H felis-infected INS-GAS mice. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7819 mL	13.9094 mL	27.8187 mL
5 mM	0.5564 mL	2.7819 mL	5.5637 mL
10 mM	0.2782 mL	1.3909 mL	2.7819 mL
50 mM	0.0556 mL	0.2782 mL	0.5564 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.

Reference

Takaishi S, et al. Synergistic inhibitory effects of gastrin and histamine receptor antagonists on Helicobacter-induced gastric cancer.

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