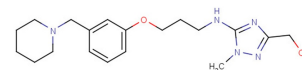


Lavoltidine

Chemical Properties

CAS No.:	76956-02-0
Formula:	C ₁₉ H ₂₉ N ₅ O ₂
Molecular Weight:	359.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Lavoltidine is an orally active and irreversible histamine H ₂ -receptor antagonist. Lavoltidine strongly suppresses gastric acid secretion and also induces hypergastrinemia.
Targets(IC ₅₀)	H ₂ Receptor: None
In vivo	Lavoltidine inhibits gastric atrophy, hyperplasia, and dysplasia in H felis-infected INS-GAS mice. Lavoltidine treatment for 6 months inhibits gastric tumors in H felis-infected INS-GAS mice. Lavoltidine (0.5 g/L; orally (drinking water); changed weekly; 3 months) displays partial suppression of both gastric acid secretion and progression to neoplasia.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.782 mL	13.909 mL	27.819 mL
5 mM	0.556 mL	2.782 mL	5.564 mL
10 mM	0.278 mL	1.391 mL	2.782 mL
50 mM	0.056 mL	0.278 mL	0.556 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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