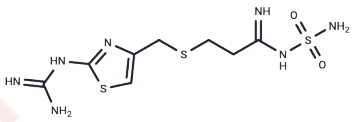
Data Sheet (Cat.No.T1627)

TargetMol

Famotidine

Chemical Properties



CAS No. : 76824-35-6

Formula: C8H15N7O2S3

Molecular Weight: 337.45

Storage: 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	Famotidine (MK-208) is a propanimidamide and histamine H2-receptor antagonist with antacid activity. As a competitive inhibitor of histamine H2-receptors on the basolateral membrane of parietal cells, famotidine reduces basal and nocturnal gastric acid secretion, thereby decreasing gastric volume, acidity, and the amount of gastric acid released in response to various stimuli.
Targets(IC50)	Histamine Receptor

Solubility Information

Solubility	DMSO: 250 mg/mL (740.85 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.93 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9634 mL	14.817 mL	29.634 mL
5 mM	0.5927 mL	2.9634 mL	5.9268 mL
10 mM	0.2963 mL	1.4817 mL	2.9634 mL
50 mM	0.0593 mL	0.2963 mL	0.5927 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

Takahashi HK, et al. Mol Pharmacol. 2006 Aug;70(2):450-3.