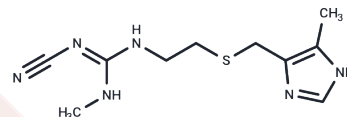


Cimetidine

Chemical Properties

CAS No. :	51481-61-9
Formula:	C ₁₀ H ₁₆ N ₆ S
Molecular Weight:	252.34
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cimetidine (SKF-92334) is a histamine congener, it competitively inhibits HISTAMINE binding to HISTAMINE H2 RECEPTORS. Cimetidine has a range of pharmacological actions. It inhibits GASTRIC ACID secretion, as well as PEPSIN and GASTRIN output.
Targets(IC50)	Histamine Receptor

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 3 mg/mL (11.89 mM),Sonication is recommended. DMSO: 45 mg/mL (178.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9629 mL	19.8145 mL	39.6291 mL
5 mM	0.7926 mL	3.9629 mL	7.9258 mL
10 mM	0.3963 mL	1.9815 mL	3.9629 mL
50 mM	0.0793 mL	0.3963 mL	0.7926 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.

Reference

Hernandez-Munoz R, et al. Lab Invest. 2000 Aug; 80(8): 1161-9.

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