

## Cimetidine

## Chemical Properties

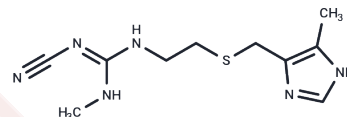
CAS No. : 51481-61-9

Formula: C<sub>10</sub>H<sub>16</sub>N<sub>6</sub>S

Molecular Weight: 252.34

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	Cimetidine (SKF-92334) is a histamine congener, it competitively inhibits HISTAMINE binding to HISTAMINE H <sub>2</sub> RECEPTORS. Cimetidine has a range of pharmacological actions. It inhibits GASTRIC ACID secretion, as well as PEPSIN and GASTRIN output.
Targets(IC <sub>50</sub> )	Antibacterial,Histamine Receptor

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 3 mg/mL (11.89 mM),Sonication is recommended. DMSO: 245 mg/mL (970.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.5 mg/mL (9.91 mM),Sonication is recommended. <i>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.</i>

## 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.

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

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

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