

CP-66948

Chemical Properties

CAS No. : 101189-47-3

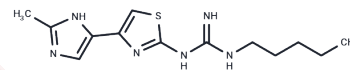
Formula: C₁₃H₂₀N₆S

Molecular Weight: 292.4

Store at low temperature

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	CP-66948 is a potent histamine H ₂ receptor antagonist with inhibitory effect on gastric acid secretion and can be used to protect gastric and intestinal mucosa.
Targets(IC ₅₀)	Histamine Receptor
In vivo	CP-66,948 exhibits an affinity for the guinea pig atria histamine H ₂ -receptor that is 15 times greater than that of cimetidine and seven times greater than that of ranitidine. In vivo, the ED ₅₀ value for the inhibition of gastric acid secretion in pylorus-ligated rats is 2 mg/kg intraduodenally. In histamine or pentagastrin-stimulated Heidenhain pouch dogs, the antisecretory ED ₅₀ values are 0.3 mg/kg per os and 1.0 mg/kg per os, respectively. CP-66,948 also demonstrates inhibition of ethanol-induced gastric hemorrhagic lesions in rats following either oral or systemic administration, with ED ₅₀ values of 12 mg/kg per os and 6 mg/kg subcutaneously[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.420 mL	17.0999 mL	34.1997 mL
5 mM	0.684 mL	3.420 mL	6.8399 mL
10 mM	0.342 mL	1.710 mL	3.420 mL
50 mM	0.0684 mL	0.342 mL	0.684 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

Hakkinen JP, et al. CP-66,948: an antisecretory histamine H2-receptor antagonist with mucosal protective properties. Dig Dis Sci. 1991 Dec;36(12):1721-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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