

Sufotidine

Chemical Properties

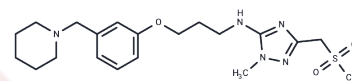
CAS No. : 80343-63-1

Formula: C₂₀H₃₁N₅O₃S

Molecular Weight: 421.56

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sufotidine (AH 25352X) is a highly selective competitive H ₂ receptor antagonist.
Targets(IC ₅₀)	Histamine Receptor
In vitro	The acid inhibitory effect of sufotidine, a potent, long-lasting, competitive H ₂ -receptor antagonist, was studied in 12 healthy males in a double-blind, randomized, three-way cross-over study of the effect of placebo, sufotidine 600 mg nocte and sufotidine 600 mg b.d. given over 15 days. On days 1 and 15 of dosing with each regimen, each subject's 24-hour ambulatory intragastric acidity was measured by radiotelemetry, and 24-hour plasma gastrin profiles were derived from hourly venous blood samples. Acid suppression was calculated as the decrease in the area under the curve of hydrogen ion activity vs time from that observed on placebo, and 24-h plasma gastrin was calculated as the area under the curve of plasma gastrin concentration vs time. 24h intragastric acidity during the fifteenth day of dosing with sufotidine 600 mg nocte and sufotidine 600 mg b.d. did not differ significantly, but on the first and fifteenth day of dosing nocturnal acidity was decreased to a greater extent by sufotidine 600 mg nocte than sufotidine 600 mg b.d. (P less than 0.005). After 15 days, the acid suppression afforded by sufotidine 600 mg b.d. was significantly attenuated (P less than 0.0005); this was associated with a rise in 24-h plasma gastrin (P less than 0.001). Thus, tolerance to the acid-inhibitory effect of H ₂ -receptor antagonists exists and is of rapid onset.[1]

Solubility Information

Solubility	DMSO: 55 mg/mL (130.47 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	2.3721 mL	11.8607 mL	23.7214 mL
5 mM	0.4744 mL	2.3721 mL	4.7443 mL
10 mM	0.2372 mL	1.1861 mL	2.3721 mL
50 mM	0.0474 mL	0.2372 mL	0.4744 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

Rogers MJ, et al. The effects of 15 days of dosing with placebo, sufotidine 600 mg nocte or sufotidine 600 mg twice daily upon 24-hour intragastric acidity and 24-hour plasma gastrin. *Aliment Pharmacol Ther.* 1990;4 Suppl 1:65-74.

Johnston DA, et al. Inhibition of gastric secretion following single morning or twice daily oral administration of sufotidine to volunteers. *Br J Clin Pharmacol.* 1989 Oct;28(4):403-7.

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