Zaltidine

Cat. No.: HY-15541

CAS No.: 85604-00-8

Molecular Formula: $C_8H_{10}N_6S$

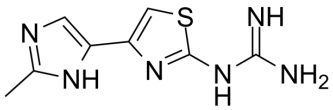
Molecular Weight: 222.27

Target: Histamine Receptor

Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H_2O : 7.69 mg/mL (34.60 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.4990 mL	22.4952 mL	44.9903 mL
	5 mM	0.8998 mL	4.4990 mL	8.9981 mL
	10 mM	0.4499 mL	2.2495 mL	4.4990 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Zaltidine(CP-57361) is a H2-receptor antagonist, which has the antisecretory action.IC50 Value: Target: H2 receptorin vitro:in vivo: In eight healthy male volunteers single oral doses of 5 mg, 25 mg and 100 mg produced dose-related inhibition of basal and pentagastrin-stimulated acid output (M.A.O.) with an estimated ID50 of 40 mg for the latter. In eight subjects with duodenal ulceration single 100 mg and 200 mg doses produced 85% and 97% inhibition of M.A.O. at peak (3 h post-dose) and 20% and 23% inhibition at 24 h, respectively; inhibition of basal acid output was 97% at 3 h and 50% at 24 h with both doses [1]. One hundred and thirty-five patients were randomly allocated to 4 weeks' treatment with either 150 mg zaltidine once daily or placebo. Fifty-nine were treated for a full 4 weeks with zaltidine before the trial was stopped. Healing rates after 4 weeks of zaltidine and placebo were 86% and 19%, respectively (p less than 0.001) [2].

REFERENCES

[1]. Laferla G, Buchanan N, Hearns J, The antisecretory effects of zaltidine, a novel long-acting H2-receptor antagonist, in healthy volunteers and in subjects with a past history of duodenal ulcer. Br J Clin Pharmacol. 1986 Oct;22(4):395-9.

[2]. Farup PG. Zaltidine: an effective but hepatotoxic H2-receptor antagonist. Scand J Gastroenterol. 1988 Aug;23(6):655-8.

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