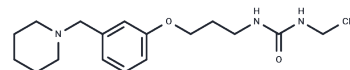


Dalcotidine

Chemical Properties

CAS No. : 120958-90-9
Formula: C₁₈H₂₉N₃O₂
Molecular Weight: 319.44
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Dalcotidine (KU 1257) is a novel histamine H ₂ receptor antagonist with histamine H ₉ receptor antagonistic activity and antisecretory effects. The K _i value for binding to guinea pig cerebral cortex was 0.040. The K _B value for antagonism of histamine-induced positive chronotropic responses in the right atrium of isolate guinea pigs was 0.041. Dalcotidine improves the quality of ulcer healing, and may contribute to a reduction in ulcer recurrence and relapse rates.
Targets(IC ₅₀)	Histamine Receptor
In vivo	KU-1257 (10-50 mg/kg x 2/day; oral; rats) markedly promoted the well-balanced healing of gastric ulcers, as evidenced by the reduction of ulcers, regeneration of mucosa and proliferation of connective tissue. KU-1257 caused an increase in gastric mucus secretion in the regenerated mucosa around the gastric ulcers. KU-1257 is characterized by a potent promoting action on the healing of chronic ulcers, suggesting that the increase in gastric mucus secretion might be associated with the antiulcer actions of KU-1257 in part.[2]

Solubility Information

Solubility	DMSO: 3.6 mg/mL (11.27 mM) (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1305 mL	15.6524 mL	31.3048 mL
5 mM	0.6261 mL	3.1305 mL	6.261 mL
10 mM	0.313 mL	1.5652 mL	3.1305 mL
50 mM	0.0626 mL	0.313 mL	0.6261 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

Sekiguchi H, et al. Pharmacological profiles of the new histamine H₂-receptor antagonist N-ethyl-N'-[3-[3-(piperidinomethyl)phenoxy] propyl] urea. *Arzneimittelforschung*. 1993;43(2):129-133.

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