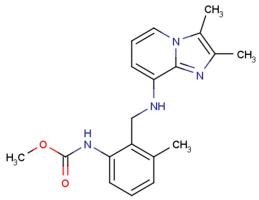
Data Sheet (Cat.No.T16682)

TargetMol
A DRUG SCREENING EXPERT

Pumaprazole

Chemical Properties



CAS No.:	158364-59-1
Formula:	C19H22N4O2
Molecular Weight:	338.4
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Pumaprazole is an antagonist of a reversible proton pump.
Targets(IC_{50})	proton pump: None
In vivo	Pumaprazole shows identical ID50 values on day 1 (11 μmol/kg, 95% confidence limits of 5 and 23), and on day 7 (10 μmol/kg, 95% confidence limits of 4 and 23) of a repeated dose study in this model. Basal acid secretion in the Ghosh-Schild rat is inhibited by Pumaprazole with a higher efficacy compared to ranitidine. The lower dose of Pumaprazole (27 μmol/kg) rapidly elevates luminal pH up to almost neutrality, the higher dose (54 μmol/kg) further prolongs this pH-elevating effect[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.955 mL	14.775 mL	29.551 mL
5 mM	0.591 mL	2.955 mL	5.91 mL
10 mM	0.296 mL	1.478 mL	2.955 mL
50 mM	0.059 mL	0.296 mL	0.591 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Kromer W, et al. Animal pharmacology of reversible antagonism of the gastric acid pump, compared to standard antisecretory principles. Pharmacology. 2000 May;60(4):179-87.

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