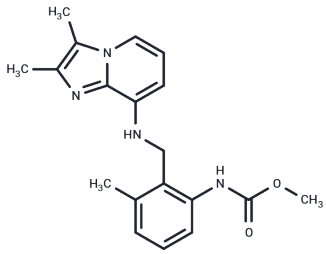
Data Sheet (Cat.No.T16682)

TargetMol
YOUR TARGET MOLECULES

Pumaprazole

Chemical Properties



CAS No. : 158364-59-1

Formula: C19H22N4O2

Molecular Weight: 338.4

Appearance: no data available

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

Biological Description

Description	Pumaprazole (BY-841) is an antagonist of a reversible proton pump.
Targets(IC50)	Proton pump
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	DMSO: 55 mg/ml (162.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9551 mL	14.7754 mL	29.5508 mL
5 mM	0.591 mL	2.9551 mL	5.9102 mL
10 mM	0.2955 mL	1.4775 mL	2.9551 mL
50 mM	0.0591 mL	0.2955 mL	0.591 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

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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