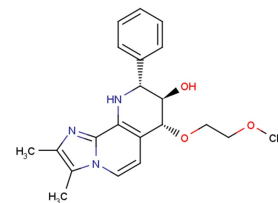


Soraprazan

Chemical Properties

CAS No.:	261944-46-1
Formula:	C ₂₁ H ₂₅ N ₃ O ₃
Molecular Weight:	367.44
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Soraprazan is a reversible, and fast-acting gastric H ⁺ /K ⁺ ATPase inhibitor.
Targets(IC ₅₀)	Others: None
In vitro	Soraprazan is a potent gastric H ₂ K-ATPase inhibitor(IC ₅₀ :0.1 μM) when measured in ion-leaky vesicles in the presence of 1 mM potassium. Soraprazan also effectively inhibits dibutyl cAMP-stimulated [¹⁴ C]AP accumulation in isolated gastric glands(IC ₅₀ of 0.19 μM)(0.09-0.40 μM geometric mean from n=6 with 95% confidence limits). In ion-leaky vesicles, soraprazan is a potent k-competitive the H ₂ K-ATPase inhibitor(K _i of 6.4 nM). Soraprazan binds to the H ₂ K-ATPase in ion-leaky vesicles with a K _d of 26.4 nM and a B _{max} of 2.89 nmol/mg.

Solubility Information

Solubility	DMSO: 150 mg/mL (408.23 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.722 mL	13.608 mL	27.215 mL
5 mM	0.544 mL	2.722 mL	5.443 mL
10 mM	0.272 mL	1.361 mL	2.722 mL
50 mM	0.054 mL	0.272 mL	0.544 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Simon WA, et al. Soraprazan: setting new standards in inhibition of gastric acid secretion. J Pharmacol Exp Ther. 2007 Jun;321(3):866-74. Epub 2007 Mar 16.

Inhibitors · Natural Compounds · Compound Libraries

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