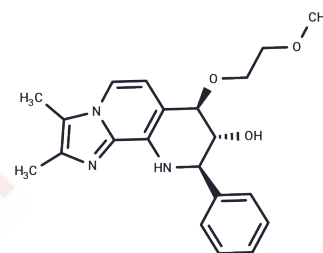


Soraprazan

Chemical Properties

CAS No. :	261944-46-1
Formula:	C ₂₁ H ₂₅ N ₃ O ₃
Molecular Weight:	367.44
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Soraprazan (BYK61359) is a selective potassium channel inhibitor that inhibits gastric acid secretion and ameliorates age-related eye disease by removing lipofuscin from retinal pigment epithelial (RPE) cells.
Targets(IC50)	Proton pump,Sodium Channel
In vitro	Soraprazan is a potent inhibitor of gastric H,K-ATPase, with an IC ₅₀ value of 0.1 μM in the presence of 1 mM potassium ions in ion-loss vesicles, and inhibits dibutyryl cyclic AMP-stimulated [¹⁴ C]AP accumulation in isolated gastric glands with an IC ₅₀ value of 0.19 μM. [1]
In vivo	Soraprazan 1-27 μmol/kg administered orally showed rapid and stable inhibition of acid secretion in dogs.[1]

Solubility Information

Solubility	DMSO: 80 mg/mL (217.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (13.61 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7215 mL	13.6077 mL	27.2153 mL
5 mM	0.5443 mL	2.7215 mL	5.4431 mL
10 mM	0.2722 mL	1.3608 mL	2.7215 mL
50 mM	0.0544 mL	0.2722 mL	0.5443 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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