Linaprazan

Cat. No.:	HY-100412			
CAS No.:	248919-64-4	4		
Molecular Formula:	$C_{21}H_{26}N_4O_2$			
Molecular Weight:	366.46			
Target:	Proton Pump			
Pathway:	Membrane Transporter/Ion Channel			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

SOLVENT & SOLUBILITY

Preparing Stock Solutions	means soluble, b	ut saturation unknown. Solvent Concentration	1 mg	5 mg	10 mg	
	1 mM	2.7288 mL	13.6441 mL	27.2881 mL		
		5 mM	0.5458 mL	2.7288 mL	5.4576 mL	
		10 mM	0.2729 mL	1.3644 mL	2.7288 mL	
	Please refer to the solu	Please refer to the solubility information to select the appropriate solvent.				
n Vivo		ne by one: 10% DMSO >> 40% PE g/mL (5.68 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline		
	ne by one: 10% DMSO >> 90% cor g/mL (5.68 mM); Clear solution	rn oil				

BIOLOGICAL ACTIVITY				
DIOLOGICALACITY				
Description	Linaprazan (AZD0865) inhibits gastric H+,K+-ATPase by K+-competitive binding. (IC50: 1.0 ± 0.2 μM)It is a acid-suppressing agents with rapid onset of action and potent acid inhibition. In vitro: Linaprazan can inhibit the final step in acid secretion. Linaprazanreduced porcine renal Na+,K+-ATPase activity by 9 ± 2%, demonstrating a high selectivity for H+,K+-ATPase.In vivo: The reference for animal administration is 0.5-1.0 mg/kg. The greater degree of acid suppression with the 75-mg dose of Linaprazan would translate to a healing rate of 89% at 4 weeks.			

REFERENCES

Product Data Sheet

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[1]. Gedda K et al. Mechanism of action of AZD0865, a K+-competitive inhibitor of gastric H+,K+-ATPase. Biochem Pharmacol. 2007 Jan 15;73(2):198-205.

[2]. Kahrilas PJ et al. A randomized, comparative study of three doses of AZD0865 and esomeprazole for healing of reflux esophagitis. Clin Gastroenterol Hepatol. 2007 Dec;5(12):1385-91.

Caution: Product has not been fully validated for medical applications. For research use only.

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