



上海源叶生物科技有限公司
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产品名称: **Soraprazan**
 产品别名: **BYK61359**

生物活性:				
Description	Soraprazan is a reversible, and fast-acting inhibitor of gastric H ⁺ /K ⁺ ATPase.			
In Vitro	Soraprazan is a potent inhibitor of gastric H,K-ATPase, with an IC ₅₀ of 0.1 μM when measured in ion-leaky vesicles in the presence of 1 mM potassium. Soraprazan also effectively inhibits dibutyryl cAMP-stimulated [¹⁴ C]AP accumulation in isolated gastric glands with an 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 inhibitor of the H,K-ATPase, with K _i of 6.4 nM. Soraprazan binds to the H,K-ATPase in ion-leaky vesicles with a K _d of 26.4 nM and a Bmax of 2.89 nmol/mg[1].			
Solvent&Solubility	In Vitro: DMSO : ≥ 150 mg/mL (408.23 mM) * "≥" means soluble, but saturation unknown.			
		Solvent Concentration	Mass Concentration	
	Preparing			
	Stock Solutions			
		1 mg	5 mg	10 mg
	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
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。			
References	[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.			
实验参考:				
Kinase Assay	<p>[³H]Soraprazan binding studies are carried out at 20°C. In saturation experiments to determine the K_d value, ion-leaky gastric vesicles (0.01-0.02 mg/mL) are resuspended in a buffer composed of 20 mM Tris-HCl, pH 7.0, 2 mM MgCl₂, and 2 mM ATP (pH 7.0 by Tris) in the presence of increasing concentrations of [³H]soraprazan (0.1 nM-1 μM). Nonspecific binding is determined in the presence of a 100 fold excess of unlabeled soraprazan over the concentration range of [³H]soraprazan used. The enzyme suspension (1 mL) is incubated at 20°C for 30 min and rapidly filtered through a nitrocellulose membrane filter (0.45 μM) prewet with a solution composed of 20 mM Tris-HCl, pH 7.0, 10% polyethylene glycol 3350 that is placed on top of a glass fiber filter. The membrane is washed five times with 2.5 mL of a buffer composed of 20 mM Tris-HCl, pH 7.0, and 10% polyethylene glycol 3350 to remove unbound inhibitor. The membrane is put into a 20-mL scintillation vial, dimethylacetamide (0.5 mL) is added to dissolve the membrane, and 14 mL of scintillation solvent is added and counted. Binding of [³H]soraprazan is determined by subtracting the nonspecific binding of [³H]soraprazan, obtained in the presence of the 100-fold excess of nonradioactive soraprazan, from the amounts of [³H]soraprazan bound to the membrane in the absence of the cold inhibitor. [1]</p>			



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