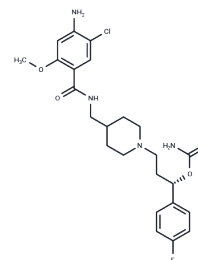


Relenopride

Chemical Properties

CAS No. :	1221416-43-8
Formula:	C ₂₄ H ₃₀ ClFN ₄ O ₄
Molecular Weight:	492.97
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Relenopride (YKP 10811) is a selective 5-HT ₄ receptor agonist that promotes intestinal motility and is used in the study of intestinal disorders.
Targets(IC ₅₀)	5-HT Receptor
In vitro	Relenopride hydrochloride exhibits antagonist activity at the 5-HT _{2B} receptor with an IC ₅₀ of 2.1 μM, while it shows no significant activity at the 5-HT _{2A} receptor up to 10 μM [1].

Solubility Information

Solubility	H ₂ O: 30 mg/mL (60.86 mM),Sonication is recommended. DMSO: 80 mg/mL (162.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0285 mL	10.1426 mL	20.2852 mL
5 mM	0.4057 mL	2.0285 mL	4.057 mL
10 mM	0.2029 mL	1.0143 mL	2.0285 mL
50 mM	0.0406 mL	0.2029 mL	0.4057 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

Shin A, et al. A randomized trial of 5-hydroxytryptamine4-receptor agonist, YKP10811, on colonic transit and bowel function in functional constipation. Clin Gastroenterol Hepatol. 2015;13(4):701-8.e1.

Yin J, et al. Prokinetic effects of a new 5-HT4 agonist, YKP10811, on gastric motility in dogs. J Gastroenterol Hepatol. 2017;32(3):625-630.

Gilet M, et al. Influence of a new 5-HT4 receptor partial agonist, YKP10811, on visceral hypersensitivity in rats triggered by stress and inflammation. Neurogastroenterol Motil. 2014;26(12):1761-1770.

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