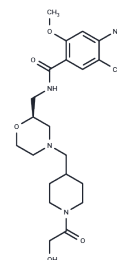


Minesapride

Chemical Properties

CAS No. :	1184662-54-1
Formula:	C ₂₁ H ₃₁ ClN ₄ O ₅
Molecular Weight:	454.95
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	Minesapride, a novel 5-hydroxytryptamine 4 (5-HT ₄) receptor partial agonist, is a potential gastrointestinal prokinetic agent for the treatment of irritable bowel syndrome with constipation.
Targets(IC ₅₀)	5-HT Receptor
In vivo	Minesapride (1, 4, 12, or 40 mg; once daily; 4 weeks) improved in Minesapride 40 mg group abdominal symptoms score at week 4. In a phase 2 trial of patients with IBS-C in Japan, minesapride increased stool frequency (measured by CSBMs), reduced abdominal and overall IBS-C symptoms, and was well tolerated.[1]

Solubility Information

Solubility	DMSO: 30 mg/mL (65.94 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	2.198 mL	10.9902 mL	21.9804 mL
5 mM	0.4396 mL	2.198 mL	4.3961 mL
10 mM	0.2198 mL	1.099 mL	2.198 mL
50 mM	0.044 mL	0.2198 mL	0.4396 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

- Fukudo S, et al. Efficacy and Safety of 5-HT₄ Receptor Agonist Minesapride for Irritable Bowel Syndrome with Constipation in a Randomized Controlled Trial. *Clin Gastroenterol Hepatol.* 2021;19(3):538-546.e8.
- Hamatani T, et al. Randomised clinical trial: minesapride vs placebo for irritable bowel syndrome with predominant constipation. *Aliment Pharmacol Ther.* 2020;52(3):430-441.
- Hamatani T, et al. Pharmacokinetics, safety and metabolite profiling of minesapride, a novel 5-HT receptor partial agonist, in healthy elderly and young subjects. *Drug Metab Pharmacokinet.* 2020;35(6):563-570.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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