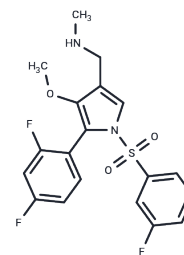


Abeprazan

Chemical Properties

CAS No. :	1902954-60-2
Formula:	C ₁₉ H ₁₇ F ₃ N ₂ O ₃ S
Molecular Weight:	410.41
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	Abeprazan (DWP14012) is a potassium-competitive acid blocker developed as a potential alternative to proton pump inhibitors for treating acid-related diseases. It inhibits H ⁺ , K ⁺ -ATPase through reversible potassium-competitive ionic binding, without requiring acid activation [1].
Targets(IC50)	Others, Proton pump
In vitro	The mechanism of action of Abeprazan involves reversible binding to H ⁺ , K ⁺ -ATPase. Unlike PPIs, it does not require an acidic environment for activation [1].
In vivo	In various in vivo studies using pylorus-ligated rats, lumen-perfused rat models and heidenhain pouch dog models[1], DWP14012 inhibited acid secretion in a dose-dependent manner and the inhibition of gastric acid secretion was equal to or greater than that of vonoprazan, a previously approved P-CAB.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4366 mL	12.1829 mL	24.3659 mL
5 mM	0.4873 mL	2.4366 mL	4.8732 mL
10 mM	0.2437 mL	1.2183 mL	2.4366 mL
50 mM	0.0487 mL	0.2437 mL	0.4873 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

Sunwoo J, et al. Safety, tolerability, pharmacodynamics and pharmacokinetics of DWP14012, a novel potassium-competitive acid blocker, in healthy male subjects. *Aliment Pharmacol Ther.* 2018 Jul;48(2):206-218.

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