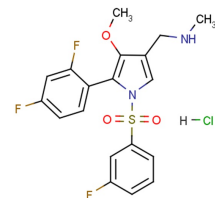


## Abeprazan hydrochloride

## Chemical Properties

CAS No.:	1902954-87-3
Formula:	C <sub>19</sub> H <sub>18</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	446.87
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Abeprazan (DWP14012) hydrochloride is a potassium-competitive acid blocker. It inhibits H <sup>+</sup> , K <sup>+</sup> - ATPase by reversible potassium-competitive ionic binding with no acid activation required. It is developed as a potential alternative to a proton pump inhibitor for the treatment of acid-related diseases.
Targets(IC <sub>50</sub> )	Others: None
In vivo	Abeprazan hydrochloride inhibits acid secretion in a dose-dependent manner and the inhibition of gastric acid secretion is equal to or greater than that of vonoprazan, a previously approved P-CAB, in various in vivo studies using pylorus-ligated rats, lumen-perfused rat models, and heidenhain pouch dog models.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.238 mL	11.189 mL	22.378 mL
5 mM	0.448 mL	2.238 mL	4.476 mL
10 mM	0.224 mL	1.119 mL	2.238 mL
50 mM	0.045 mL	0.224 mL	0.448 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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