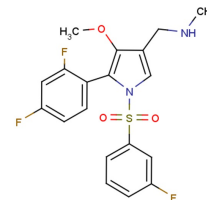


## Abeprazan

## Chemical Properties

CAS No.:	1902954-60-2
Formula:	C <sub>19</sub> H <sub>17</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub> S
Molecular Weight:	410.41
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) is a potassium-competitive acid blocker and it is developed as a potential alternative to proton pump inhibitor for the treatment of acid-related diseases[1]. Abeprazan inhibits H <sup>+</sup> , K <sup>+</sup> -ATPase by reversible potassium-competitive ionic binding with no acid activation required.
Targets(IC <sub>50</sub> )	Others: None
In vitro	The mechanism of action of Abeprazan is reversibly binding to H <sup>+</sup> , K <sup>+</sup> -ATPase. It unlike that of PPIs, does not require acidic environment for drug 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.

## 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	2.437 mL	12.183 mL	24.366 mL
5 mM	0.487 mL	2.437 mL	4.873 mL
10 mM	0.244 mL	1.218 mL	2.437 mL
50 mM	0.049 mL	0.244 mL	0.487 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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