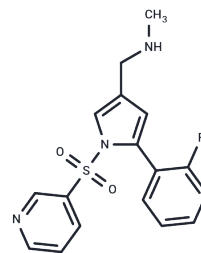


Vonoprazan

Chemical Properties

CAS No. :	881681-00-1
Formula:	C17H16FN3O2S
Molecular Weight:	345.39
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Vonoprazan (TAK-438 (free base)) is an orally active potassium-competitive acid blocker. Vonoprazan can be used for the treatment of gastroduodenal ulcer and reflux esophagitis
Targets(IC50)	Proton pump, Antibacterial

Solubility Information

Solubility	DMSO: 100 mg/mL (289.53 mM), Heating is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (11.58 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8953 mL	14.4764 mL	28.9528 mL
5 mM	0.5791 mL	2.8953 mL	5.7906 mL
10 mM	0.2895 mL	1.4476 mL	2.8953 mL
50 mM	0.0579 mL	0.2895 mL	0.5791 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

Hori Y, et al. A study comparing the antisecretory effect of TAK-438, a novel potassium-competitive acid blocker, with lansoprazole in animals. *J Pharmacol Exp Ther*, 2011, 337(3), 797-804.

Arikawa Y, et al. Discovery of a novel pyrrole derivative 1-[5-(2-fluorophenyl)-1-(pyridin-3-ylsulfonyl)-1H-pyrrol-3-yl]-N-methylmethanamine fumarate (TAK-438) as a potassium-competitive acid blocker (P-CAB). *J Med Chem*, 2012, 55(9), 4446-4456.

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