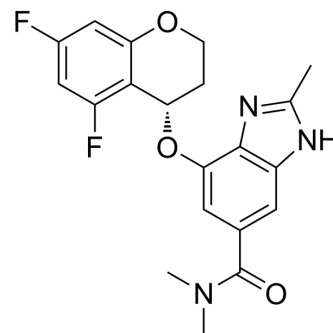


Tegoprazan

Cat. No.:	HY-17623		
CAS No.:	942195-55-3		
Molecular Formula:	C ₂₀ H ₁₉ F ₂ N ₃ O ₃		
Molecular Weight:	387.38		
Target:	Proton Pump		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (258.14 mM; Need ultrasonic)					
		Solvent	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	Concentration				
		1 mM		2.5814 mL	12.9072 mL	25.8144 mL
5 mM		0.5163 mL	2.5814 mL	5.1629 mL		
	10 mM		0.2581 mL	1.2907 mL	2.5814 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.45 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.45 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.45 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tegoprazan (CJ-12420), a potassium-competitive acid blocker, is a potent, oral active and highly selective inhibitor of gastric H ⁺ /K ⁺ -ATPase that could control gastric acid secretion and motility, with IC ₅₀ values ranging from 0.29-0.52 μM for porcine, canine, and human H ⁺ /K ⁺ -ATPases in vitro ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.29-0.52 μM (H ⁺ /K ⁺ -ATPase) ^[1] .

CUSTOMER VALIDATION

- Int J Mol Sci. 2023 Sep 26, 24(19), 14589.
- J Pharmaceut Biomed. 2023 Mar 4.

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REFERENCES

[1]. Takahashi N, et al. Tegoprazan, a Novel Potassium-Competitive Acid Blocker to Control Gastric Acid Secretion and Motility. J Pharmacol Exp Ther. 2018 Feb;364(2):275-286.

Caution: Product has not been fully validated for medical applications. For research use only.

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