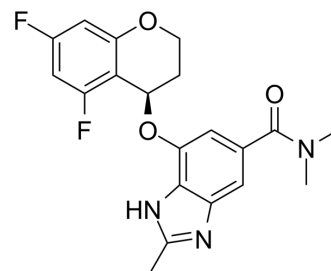


## (R)-Tegoprazan

Cat. No.:	HY-17623C		
CAS No.:	942195-56-4		
Molecular Formula:	C <sub>20</sub> H <sub>19</sub> F <sub>2</sub> N <sub>3</sub> O <sub>3</sub>		
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 : 50 mg/mL (129.07 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

- 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
- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (6.45 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

(R)-Tegoprazan (example 3), a benzimidazole derivative, is a potent kidney H<sup>+</sup>/K<sup>+</sup>-ATPase inhibitor with an IC<sub>50</sub> of 98 nM of canine kidney Na<sup>+</sup>/K<sup>+</sup>-ATPase. (R)-Tegoprazan has the potential for gastrointestinal diseases research<sup>[1]</sup>.

### REFERENCES

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA