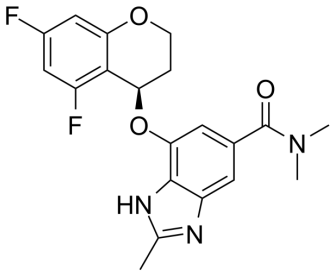
(R)-Tegoprazan

Cat. No.:	HY-17623C
CAS No.:	942195-56-4
Molecular Formula:	$C_{20}H_{19}F_2N_3O_3$
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 : 50 mg/mL (129.07 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	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

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

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

REFERENCES

[1]. Takeshi Hanazawa, et al. Chromane Substituted Benzimidazole Derivatives. US20070142448A1.

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