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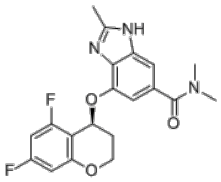
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Tegoprazan
Cat. No.	:	PC-60811
CAS No.	:	942195-55-3
Molecular Formula	:	$C_{20}H_{19}F_2N_3O_3$
Molecular Weight	:	387.387
Target	:	Proton Pump
Solubility	:	10 mM in DMSO



Biological Activity

Tegoprazan (CJ 12420, RQ-00000004, RQ-4) is a novel potent, highly selective, competitive and orally active inhibitor of **gastric H+/K+-ATPase** with IC50 of ranging 0.29-0.52 uM porcine, canine and human H+/K+-ATPases in vitro.
Tegoprazan displays no activity against canine kidney Na+/K+-ATPase (IC50>100 uM).
Tegoprazan potently inhibits histamine-induced gastric acid secretion in dogs and a complete inhibition at 1.0 mg/kg starting from 1 hr after administration, reverses the pentagastrin-induced acidified gastric pH to the neutral range at 1-3 mg/kg, immediately evoks a gastric phase III contraction of migrating motor complex (MMC) in pentagastrin-treated dogs.

References

Takahashi N, et al. ***J Pharmacol Exp Ther.*** 2017 Nov 27. pii: jpet.117.244202.

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