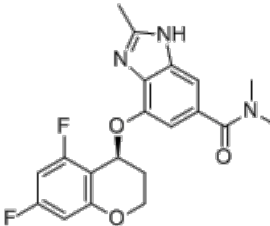


Product Name	: Tegoprazan
Synonyms	: CJ 12420;RQ-00000004;RQ-4
Cat No.	: M16742
CAS Number	: 942195-55-3
Molecular Formula	: C ₂₀ H ₁₉ F ₂ N ₃ O ₃
Formula Weight	: 387.39
Chemical Name	: (S)-4-((5,7-difluorochroman-4-yl)oxy)-N,N,2-trimethyl-1H-benzo[d]imidazole-6-carboxamide
Description	 <p>A novel potent, 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; displays no activity against canine kidney Na⁺/K⁺-ATPase (IC₅₀>100 uM); 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 evokes a gastric phase III contraction of migrating motor complex (MMC) in pentagastrin-treated dogs. Ulcer Phase 3 Clinical</p>
Pathway	: Membrane Transporter/Ion Channel
Target	: Proton Pump
Receptor	: Proton Pump
Solubility	: —
SMILES	: <chem>O=C(C1=CC(OC[C@H]2CCOC3=C2C(F)=CC(F)=C3)=C4C(NC(C)=N4)=C1)N(C)C</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

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