### 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; 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 evoks a gastric phase III contraction of migrating motor complex (MMC) in pentagastrin-treated dogs.

#### References


Caution: Product has not been fully validated for medical applications. Lab Use Only!

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