

Product Name : TAK-438 free base

Synonyms : Vonoprazan; TAK438 free base

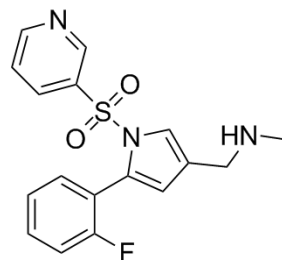
Cat No. : M16393

CAS Number : 881681-00-1

Molecular Formula : C₁₇H₁₆FN₃O₂S

Formula Weight : 345.39

Chemical Name : 1H-Pyrrole-3-methanamine, 5-(2-fluorophenyl)-N-methyl-1-(3-pyridinylsulfonyl)-



Description : A novel potent, oral potassium-competitive acid blocker (P-CAB) that potently inhibits H⁺,K⁺-ATPase with IC₅₀ of 19 nM; completely inhibits basal and 2-deoxy-d-glucose-stimulated gastric acid secretion in rats (4mg/kg, p.o.); increases the pH of gastric perfusate to a higher value, and sustains longer than those of lansoprazole or SCH28080; a clinical candidate for the treatment of gastroesophageal reflux disease (GERD), peptic ulcer, and other acid-related diseases. Ulcer Phase 3 Clinical

Pathway : Membrane Transporter/Ion Channel

Target : Proton Pump

Receptor : Proton Pump

Solubility : DMSO: ≥ 33 mg/mL

SMILES : CNCC1=CN(C(=C1)C2=CC=CC=C2F)S(=O)(=O)C3=CN=CC=C3

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Arikawa Y, et al. J Med Chem. 2012 May 10;55(9):4446-56. | 2. Hori Y, et al. J Pharmacol Exp Ther. 2010 Oct;335(1):231-8. | 3. Shin JM, et al. J Pharmacol Exp Ther. 2011 Nov;339(2):412-20.