

Product Name : Velusetrag hydrochloride

Synonyms : TD-5108

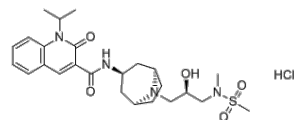
Cat No. : M16301

CAS Number : 866933-51-9

Molecular Formula : C₂₅H₃₇ClN₄O₅S

Formula Weight : 541.10

Chemical Name : N-((1R,3R,5S)-8-((R)-2-hydroxy-3-(N-methylmethylsulfonamido)propyl)-8-azabicyclo[3.2.1]octan-3-yl)-1-isopropyl-2-oxo-1,2-dihydroquinoline-3-carboxamide hydrochloride



Description : Velusetrag (TD-5108) is a potent, selective and oral 5-HT₄ receptor agonist with pK_i of 7.7, shows >500-fold selectivity over other 5-HT receptors; displays >25-fold selectivity over other biogenic amine receptors, and no effect on hERG channels; increases the contractility of the canine antrum, duodenum and jejunum with higher potency than tegaserod, demonstrates robust in vivo activity in the guinea pig, rat and dog gastrointestinal tracts. Other Indication Phase 2 Clinical

Pathway : Endocrinology/Hormones

Target : 5-HT Receptor

Receptor : 5-HT Receptor

Solubility : —

SMILES : Cl.CC(C)N1C(=O)C(=Cc2ccccc12)C(=O)NC3C[C@@H]4CC[C@H](C3)N4C[C@@H](O)CN(C)S(=O)(=O)C

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Beattie DT, et al. Naunyn Schmiedeberg Arch Pharmacol. 2008 Jul;378(1):139-47. 2. Smith JA, et al. Naunyn Schmiedeberg Arch Pharmacol. 2008 Jul;378(1):125-37. 3. Manini ML, et al. Neurogastroenterol Motil. 2010 Jan;22(1):42-9, e7-8. 4. Long DD, et al. Bioorg Med Chem Lett. 2012 Oct 1;22(19):6048-52.