

Product Name : Netazepide

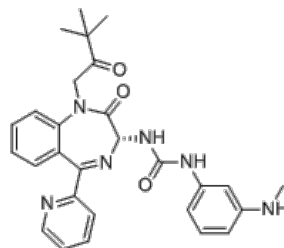
Synonyms : YF476; YF-476; Sograzepide

Cat No. : M12210

CAS Number : 155488-25-8

Molecular Formula : C₂₈H₃₀N₆O₃

Formula Weight : 498.59



Chemical Name : (R)-1-(1-(3,3-dimethyl-2-oxobutyl)-2-oxo-5-(pyridin-2-yl)-2,3-dihydro-1H-benzo[e][1,4]diazepin-3-yl)-3-(3-(methylamino)phenyl)urea

Description : Netazepide (YF476, Sograzepide) is a potent, selective and orally active gastrin/CCK-2 antagonist with IC₅₀ of 0.1 nM; displays >5,000-fold selectivity over CCK-1 receptors; inhibits pentagastrin-induced gastric acid secretion in anesthetized rats (ED₅₀=87 nM/kg), and shows potential for the treatment of gastroesophageal reflux disease (GERD); also inhibits gastric neuroendocrine enterochromaffin-like (ECL) cell hyperplasia and gastric carcinoid tumor development. Gastric Cancer Phase 2 Clinical

Pathway : GPCR/G Protein

Target : Cholecystokinin Receptor

Receptor : Cholecystokinin Receptor

Solubility : DMSO : ≥ 100 mg/mL 200.57 mM

SMILES : O=C(NC1=CC=CC(NC)=C1)N[C@@H]2C(N(CC(C(C)C)=O)C3=CC=CC=C3C4=NC=CC=C4)=N2)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Semple G, et al. J Med Chem. 1997 Jan 31;40(3):331-41. 2. Takinami Y, et al. Aliment Pharmacol Ther. 1997 Feb;11(1):113-20. 3. Takemoto Y, et al. Arzneimittelforschung. 1998 Apr;48(4):403-7. 4. Kidd M, et al. Regul Pept. 2010 Jun 8;162(1-3):52-60.