

Product Data Sheet

Product Name: Secretin (rat) (trifluoroacetate salt)

Cat. No.: GC48327

Chemical Properties

Cas. No.

SMILES NC([C@H](C(C)C)NC([C@H](CC(C)C)NC(CNC([C@H](CCC(N)=O)NC([C@H](CC(C)C)NC([C@H](CC(C)C)NC([C@H](CCCNC(N)=N)NC([C@H](CCC(N)=O)NC([C@H](CC(C)C)NC([C@H](CCCNC(N)=N)NC([C@@H](NC([C@H](CO)NC([C@@H](NC([C@H](CC(C(N)=O)NC([C@H](CC(C)C)NC([C@H](CCCNC(N)=N)NC([C@H](CO)NC([C@H](CC(C)C)NC([C@H](CCC(O)=O)NC([C@H](CO)NC([C@@H]([C@@H](C)O)([H])NC([C@@H](NC([C@@H]([C@@H](C)O)([H])NC(CNC([C@@H](NC([C@H](CO)NC([C@@H](N[H])CC1=CN=CN1)=O)=O)CC(O)=O)=O)=O)CC2=CC=CC=C2)=O)=O)=O)=O)=O)=O)=O)CC(O)=O)=O)=O)C)=O)=O)=O)=O)=O)=O)=O)=O)=O.O=C(F)(F)F)=O

Formula C₁₂₉H₂₁₆N₄₂O₄₂•XCF₃COOH M.Wt 3027.4

Solubility Water: 1 mg/ml Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

H—His—Ser—Asp—Gly—Thr—Phe—Thr—Ser—Glu—Leu—
 Ser—Arg—Leu—Gln—Asp—Ser—Ala—Arg—Leu—Gln—
 Arg—Leu—Leu—Gln—Gly—Leu—Val—NH₂
 •XCF₃COOH

Background

Secretin is a neuropeptide hormone that regulates secretion from the stomach, pancreas, and liver.^{1,2} It binds to the rat secretin receptor (SCT-R; K_i = 3.3 nM) and increases intracellular cAMP (EC₅₀ = 1 nM) in COS cells expressing rat SCT-R.³ It also increases SCT-R phosphorylation 7.2-fold at a concentration of 0.1 μM. Secretin dose-dependently increases the volume of pancreatic secretion and inhibits gastric acid secretion induced by gastrin I in rats when administered at a dose of 100

Caution: Product has not been fully validated for medical applications. For research use only.

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pmol/kg per hour.⁴

1.Kopin, A.S., Wheeler, M.B., and Leiter, A.B.Secretin: Structure of the precursor and tissue distribution of the mRNAProc. Natl. Acad. Sci. U.S.A.87(6)2299-2303(1990) 2.Sekar, R., and Chow, B.K.Metabolic effects of secretinGen. Comp. Endocrinol.18118-24(2013) 3.Ozcelebi, F., Holtmann, M.H., Rentsch, R.U., et al.Agonist-stimulated phosphorylation of the carboxyl-terminal tail of the secretin receptorMol. Pharmacol.48(5)818-824(1995) 4.Solomon, T.E., Keire, D.A., Gong, P., et al.Receptor subtypes: Species variations in secretin affect potency for pancreatic but not gastric secretionPancreas26(3)300-305(2003)

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