

Product Data Sheet

Product Name: Secretin (human) (trifluoroacetate salt)

Cat. No.: GC44881

Chemical Properties

Cas. No.

Formula C₁₃₀H₂₂₀N₄₄O₄₀•XCF₃COOH M.Wt 3039.4

Solubility Water: 1 mg/ml Storage Store at -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

$$\begin{array}{c}
 \text{H} - \text{His} - \text{Ser} - \text{Asp} - \text{Gly} - \text{Thr} - \text{Phe} - \text{Thr} - \text{Ser} - \text{Glu} - \text{Leu} - \\
 \text{Ser} - \text{Arg} - \text{Leu} - \text{Arg} - \text{Glu} - \text{Gly} - \text{Ala} - \text{Arg} - \text{Leu} - \text{Gln} - \\
 \text{Arg} - \text{Leu} - \text{Leu} - \text{Gln} - \text{Gly} - \text{Leu} - \text{Val} - \text{NH}_2 \\
 \bullet \text{XCF}_3\text{COOH}
 \end{array}$$

Background

Secretin is an endogenous 27-amino acid gastrointestinal hormone and neuropeptide that regulates secretion from the stomach, pancreas, and liver. It belongs to the secretin/glucagon superfamily of peptides, which includes glucagon , glucagon-like peptide-1 , GLP-2 , and pituitary adenylate cyclase-activating polypeptide . Secretin dose-dependently increases somatostatin release from primary human antral cells in vitro. In vivo, secretin dose-dependently increases the volume of pancreatic secretion as well as inhibits gastric acid secretion induced by gastrin I in rats when administered at a dose of 100 pmol/kg per h. Secretin (40 µg/kg, i.v.) increases the number of neurons expressing c-fos in the central amygdala and area postrema in rats.

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

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