SECRETIN (HUMAN) (TRIFLUOROACETATE SALT)

Item No. 24990

MF: C_{130}H_{220}N_{44}O_{40} • XCF_{3}COOH

FW: 3,039.4

Purity: ≥95%

Supplied as: A lyophilized powder

Storage: -20°C

Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Secretin (human) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the secretin (human) (trifluoroacetate salt) in water. The solubility of secretin (human) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Secretin is an endogenous 27-amino acid gastrointestinal hormone and neuropeptide that regulates secretion from the stomach, pancreas, and liver.\(^1,2\) It belongs to the secretin/glucagon superfamily of peptides, which includes glucagon (Item No. 24204), glucagon-like peptide-1 (GLP-1; Item No. 24460), GLP-2 (Item No. 24414), and pituitary adenylate cyclase-activating polypeptide (PACAP; Item Nos. 24769 | 24770).\(^3\) Secretin dose-dependently increases somatostatin release from primary human antral cells in vitro.\(^4\) In vivo, secretin dose-dependently increases the volume of pancreatic secretion as well as inhibits gastric acid secretion induced by gastrin I (Item No. 24457) in rats when administered at a dose of 100 pmol/kg per h.\(^5\) Secretin (40 μg/kg, i.v.) increases the number of neurons expressing c-fos in the central amygdala and area postrema in rats.\(^6\)

References