



Product Data Sheet

Cat # RP-1497

Human Secretin

Size: 1 mg

Human Secretin stimulates the secretion of bicarbonate by the pancreas and inhibits the production of gastrin and acid production in the stomach. It also potentiates the release of digestive enzymes from the pancreas triggered by cholecystokinin.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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**Source:** Secretin has a molecular formula of  $C_{130}H_{220}N_{44}O_{40}$ , a.a. sequence of -His-Ser-Asp-Gly-Thr-Phe-Thr-Ser-Glu-Leu-Ser-Arg-Leu-Arg-Glu-Gly-Ala-Arg-Leu-Gln-Arg-Leu-Leu-Gln-Gly-Leu-Val-NH<sub>2</sub> and having a Mw of 3039.45 Dalton.

**Application and Suggested Dilution:** Diagnosis of pancreatic dysfunction Diagnosis of the presence of a gastrinoma Autism - not yet approved applications. The protein (1 mg/ml) was lyophilized with no additives. It is recommended to reconstitute the lyophilized Secretin in sterile 18MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize concentration and conditions for each assay.

**Storage and Stability:** Lyophilized Secretin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Secretin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.