



LKT Laboratories, Inc.

## Secretin, human

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### Product Information

Product ID S1605

CAS No. 108153-74-8

**Chemical Name**

Synonym SecreFlo

Formula  $C_{130}H_{220}N_{44}O_{40}$

Formula Wt. 3039.4

**Melting Point**

Purity  $\geq 95\%$

Solubility Soluble in water or saline.

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description**

Secretin is an endogenous peptide hormone involved in digestion and feeding behavior; it binds to its own GPCR secretin receptor (SCTR). In adipocytes, secretin stimulates lipolysis, mediated by PKA and hormone-sensitive lipase (HSL) signaling; it also induces uptake of fatty acids and secretion of MCP-1 and adiponectin. Secretin enhances ambulation distance but not exploratory activity in animal models of repetitive hyperactivity. Additionally, secretin increases expression of tyrosine hydroxylase, stimulating catecholamine secretion in PC12 neurons.

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>

### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
S1605	1 mg	\$239.40
S1605	2 mg	\$374.70
S1605	5 mg	\$718.30

**References** Sekar R, Chow BK. Lipolytic actions of secretin in mouse adipocytes. *J Lipid Res.* 2014 Feb;55(2):190-200. PMID: 24273196.

Miegueu P, Cianflone K, Richard D, et al. Effect of secretin on preadipocyte, differentiating and mature adipocyte functions. *Int J Obes (Lond).* 2013 Mar;37(3):366-74. PMID: 22565418.

Heinzlmann A, Kiss G, Tóth ZE, et al. Intranasal application of secretin, similarly to intracerebroventricular administration, influences the motor behavior of mice probably through specific receptors. *J Mol Neurosci.* 2012 Nov;48(3):558-64. PMID: 22752505.

Mahata M, Zhang K, Gayen JR, et al. Catecholamine biosynthesis and secretion: physiological and pharmacological effects of secretin. *Cell Tissue Res.* 2011 Jul;345(1):87-102. PMID: 21597914.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.