LKT Laboratories, Inc.

Secretin, rat

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Product Information

Product ID S1607
CAS No. 121028-49-7
Chemical Name

Synonym

Formula $C_{129}H_{216}N_{42}O_{42}$
Formula Wt. 3027.42
Melting Point
Purity ≥95%
Solubility Soluble in water (2 mg/mL).

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-NH_2

Bulk quanitites available upon request

Product ID	Size
S1607	0.5 mg
S1607	1 mg
S1607	2.5 mg

Store Temp -20°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. 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.

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.