



LKT Laboratories, Inc.

Somatostatin-25

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Product Information

Product ID S5751

CAS No. 76461-17-1

Chemical Name

Synonym

Formula $C_{127}H_{191}N_{37}O_{34}S_3$

Formula Wt. 2876.36

Melting Point

Purity $\geq 95\%$

Solubility

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

Ship Temp Ambient

Description Somatostatin is an endogenous neuropeptide hormone found in the brain and pancreas. Somatostatin binds several isoforms of the somatostatin receptor, exhibiting anxiolytic, antiepileptic/anticonvulsant, and anorexigenic activities. In vivo, somatostatin improves performance in the light/dark avoidance test. Somatostatin also suppresses seizures and prevents the generation of seizures, potentially through modulation of GABA signaling. Somatostatin induces cell death under hypoxic/ischemic conditions. In tumor cells, somatostatin displays pro-apoptotic properties, potentially involving the inhibition of PI3K/Akt signaling. Somatostatin also limits food intake and inhibits secretion of insulin and glucagon through alteration of G β signaling and P/Q-type N-type, and L-type voltage-gated Ca $^{2+}$ channel signaling.

H-Ser-Asn-Pro-Ala-Met-Ala-Pro-Arg-Glu-Arg-Lys-Ala-Gly-Cys-Lys-Asn-Phe-Phe-Trp-Lys-Thr-Phe-Thr-Ser-Cys-OH (Cys14-Cys25)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S5751	0.5 mg	\$201.90
S5751	1 mg	\$343.50
S5751	2.5 mg	\$604.90

References Stumm R. Somatostatin receptor sst2 reduces Akt activity and aggravates hypoxic/ischemic death in cerebral cortical neurons. *Neuropharmacology*. 2014 Feb;77:249-56. PMID: 24157493.

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Kailey B, van de Bunt M, Cheley S, et al. SSTR2 is the functionally dominant somatostatin receptor in human pancreatic β - and α -cells. *Am J Physiol Endocrinol Metab*. 2012 Nov 1;303(9):E1107-16. PMID: 22932785.

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