



LKT Laboratories, Inc.

[Tyr1]-Somatostatin

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Product Information

Product ID S5745

CAS No. 59481-23-1

Chemical Name

Synonym

Formula $C_{82}H_{108}N_{18}O_{20}S_2$

Formula Wt. 1730.01

Melting Point

Purity $\geq 95\%$

Solubility

Store Temp -20°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 $\beta\gamma$ signaling and P/Q-type N-type, and L-type voltage-gated Ca^{2+} channel signaling.

H-Tyr-Gly-Cys-Lys-Asn-Phe-
Phe-Trp-Lys-Thr-Phe-Thr-Ser-
Cys-OH
(Cys3-Cys14)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S5745	1 mg	\$113.20
S5745	2 mg	\$192.20
S5745	5 mg	\$340.20

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