



LKT Laboratories, Inc.

Somatostatin-28

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Product Information

Product ID S5750

CAS No. 75037-27-3

Chemical Name

Synonym Prosomatostatin

Formula $C_{137}H_{207}N_{41}O_{39}S_3$

Formula Wt. 3148.6

Melting Point

Purity $\geq 98\%$

Solubility Soluble in water.

Ser-Ala-Asn-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 (Disulfide bridge Cys17-Cys28)

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S5750	1 mg	\$820.50

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 β signaling and P/Q-type N-type, and L-type voltage-gated Ca $^{2+}$ channel signaling.

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.