



## Product Data Sheet

□ Cat # RP-1516

Somatostatin

Size: □ 1 mg

Somatostatin (also known as growth hormone inhibiting hormone (GHIH) or somatotropin release-inhibiting hormone (SRIF) is a peptide hormone that regulates the endocrine system and affects neurotransmission and cell proliferation via interaction with G-protein-coupled somatostatin receptors and inhibition of the release of numerous secondary hormones. Somatostatin has two active forms produced by alternative cleavage of a single preproprotein: one of 14 amino acids, the other of 28 amino acids.

**Source:** Somatostatin Synthetic is a single, non-glycosylated polypeptide chain containing 14 amino acids, having a molecular mass of 1637.9 Dalton and a Molecular formula of  $C_{76}H_{104}N_{18}O_{19}S_2$ . The protein was lyophilized with no additives.

**Application and Suggested Dilution:** It is recommended to reconstitute the lyophilized Somatostatin in sterile 18MQ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize concentration and conditions for each assay.

**Storage and Stability:** Lyophilized SST although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Somatostatin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

RP-1516                      140313A