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## Product Data Sheet

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Product Name: SST  
 Cat. No.: GP21307  
 Batch No.: 1

### Product Data

Purity	>98%	Source	
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Growth hormone release-inhibiting factor; SST; SMS; SMST; GHIH.		
Amino Acid Sequence	Ala-Gly-Cys-Lys-Asn-Phe- Phe-Trp-Lys-Thr-Phe-Thr-Ser-Cys-OH.		
Solubility	It is recommended to reconstitute the lyophilized Somatostatin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized with no additives.		

### Introduction

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.

### 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.

### Background

Somatostatin Synthetic is a single, non-glycosylated polypeptide chain containing 14

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amino acids, having a molecular mass of 1637.9 Dalton and a Molecular formula of C<sub>76</sub>H<sub>104</sub>N<sub>18</sub>O<sub>19</sub>S<sub>2</sub>. The CAS# is 38916-34-6.

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