

Certificate of Analysis

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Product Name: Somatostatin

Catalog No.: 1157

Batch No.: 18

CAS Number: 51110-01-1

EC Number: 256-969-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₆H₁₀₄N₁₈O₁₉S₂
Batch Molecular Weight: 1637.88
Physical Appearance: White lyophilised solid
Counter Ion: Acetate
Solubility: Soluble to 0.30 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Ala-Gly-Cys-Lys-Asn-Phe-Phe-Trp-Lys-Thr-
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Phe-Thr-Ser-Cys

2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	1.00	0.99	Lys	2.00	2.06
Arg			Met		
Asx	1.00	1.04	Phe	3.00	2.91
Cys	2.00	Not Detected	Pro		
Glx			Ser	1.00	0.94
Gly	1.00	1.06	Thr	2.00	2.05
His			Trp	1.00	Not Detected
Ile			Tyr		
Leu			Val		

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Somatostatin is an endogenous peptide; inhibits the release of growth hormone, insulin and glucagon. Inhibits voltage-dependent calcium channels.

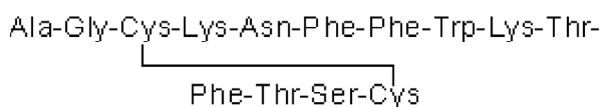
Physical and Chemical Properties:

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Batch Molecular Weight: 1637.88

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.30 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: Acetate

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Alderton *et al* (1998) Differential effects of somatostatin and angiopeptin on cell proliferation. *Br.J.Pharmacol.* **124** 323. PMID: 9641549.

Ohmura *et al* (1990) Somatostatin decreases the calcium inward current in guinea-pig atria. *Br.J.Pharmacol.* **99** 587. PMID: 1970502.

Dileepan *et al* (1985) Somatostatin: a metabolic regulator. *Life Sci.* **37** 2335. PMID: 2867445.

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