

Certificate of Analysis

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Product Name: Somatostatin 1-28

Catalog No.: 1165

Batch No.: 13

CAS Number: 74315-46-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃₇H₂₀₇N₄₁O₃₉S₃
Batch Molecular Weight: 3149
Physical Appearance: White lyophilised solid
Counter Ion: Trifluoroacetate
Solubility: Soluble to 0.50 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: 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

2. ANALYTICAL DATA

HPLC: Shows 97.1% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	4.00	4.00	Lys	3.00	2.97
Arg	2.00	1.97	Met	1.00	0.97
Asx	3.00	2.99	Phe	3.00	3.00
Cys	2.00	0.95	Pro	2.00	2.09
Glx	1.00	1.00	Ser	3.00	2.00
Gly	1.00	1.01	Thr	2.00	1.62
His			Trp	1.00	0.02
Ile			Tyr		
Leu			Val		

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

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Product Name: Somatostatin 1-28

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CAS Number: 74315-46-1

Description:

Somatostatin 1-28 is a somatostatin receptor agonist, derived from the post-translational cleavage of prosomatostatin.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₃₇H₂₀₇N₄₁O₃₉S₃

Batch Molecular Weight: 3149

Physical Appearance: White lyophilised solid

Peptide Sequence:

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

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.50 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: Trifluoroacetate

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:

Shimokawa *et al* (1997) Effect of somatostatin-28 on GH response to GH-releasing hormone-impact of aging and lifelong dietary restriction. *Neuroendocrinol.* **65** 369. PMID: 9158069.

Panetta *et al* (1994) Molecular cloning, functional characterization and chromosomal localization of a human somatostatin receptor (somatostatin receptor type 5) with preferential affinity for somatostatin-28. *Mol.Pharmacol.* **45** 417. PMID: 7908405.

Patel *et al* (1994) Expression of multiple somatostatin receptor genes in AtT-20 cells. Evidence for a novel somatostatin-28 selective receptor subtype. *J.Biol.Chem.* **269** 1506. PMID: 7904601.

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