

Certificate of Analysis

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Product Name: CH 275
CAS Number: 174688-78-9

Catalog No.: 2454 **Batch No.:** 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₄H₉₆N₁₄O₁₅S₂
Batch Molecular Weight: 1485.8
Physical Appearance: White lyophilised solid
Net Peptide Content: 95%
Counter Ion: TFA
Solubility: Soluble to 0.30 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:

Cys-Lys-Phe-Phe-D-Trp-Iamp-Thr-Phe-Thr-
Ser-Cys

2. ANALYTICAL DATA

HPLC: Shows 97.9% purity
Mass Spectrum: Consistent with structure

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

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CAS Number: 174688-78-9

Description:

Potent somatostatin receptor 1 (sst₁) agonist; displays selectivity for sst₁ (IC₅₀ values are 30.9 nM, 345 nM, > 1 μM, > 10 μM and > 10μM for human sst₁, sst₃, sst₄, sst₂ and sst₅ respectively). Attenuates somatostatin release in the rat nucleus accumbens.

Physical and Chemical Properties:

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Physical Appearance: White lyophilised solid

Peptide Sequence:

Cys-Lys-Phe-Phe-D-Trp-Iamp-Thr-Phe-Thr-
Ser-Cys

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.30 mg/ml in water

This product is supplied as a lyophilized solid and may 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.

Net Peptide Content: 95% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

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.

Licensing Information:

Sold with the permission of the SALK Institute.

References:

Vasilaki et al (2004) The somatostatin receptor (sst₁) modulates the release of somatostatin in the nucleus accumbens of the rat. *Neuropharmacology* **47** 612. PMID: 15380378.

Rivier et al (2001) Potent somatostatin undecapeptide agonists selective for somatostatin receptor 1 (sst₁). *J.Med.Chem.* **44** 2238. PMID: 11405660.

Chen et al (1999) Structural basis for the binding specificity of a SSTR1-selective analog of somatostatin. *Biochem.Biophys.Res.Comm.* **258** 689. PMID: 10329447.

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