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#### Print Date: May 9th 2023

### **Certificate of Analysis**

#### www.tocris.com

Product Name: CYN 154806 CAS Number: 183658-72-2

#### Catalog No.: 1843 Batch No.: 19

CAS NUMBER.	103030-12-2

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:
Batch Molecular Weight:
Physical Appearance:
Counter Ion:
Solubility:
Storage:
Peptide Sequence:

C<sub>56</sub>H<sub>68</sub>N<sub>12</sub>O<sub>14</sub>S<sub>2</sub> 1197.35 White Iyophilised solid TFA Soluble to 1 mg/ml in water Store at -20°C

Ac-(4-Nitro)Phe-D-Cys-Tyr-D-Trp-Lys-Thr-Cys-D-Tyr-NH2

#### 2. ANALYTICAL DATA

Mass Spectrum:

HPLC:

Shows 98.2% purity Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual			
	Ala			Lys	1.00	1.04
	Arg			Met		
	Asx			Phe		
	Cys	2.00	Detected	Pro		
	Glx			Ser		
	Gly			Thr	1.00	0.88
	His			Trp	1.00	Detected
	lle			Tyr	2.00	1.96
	Leu			Val		

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

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#### Product Name: CYN 154806

CAS Number: 183658-72-2

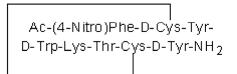
#### Description:

CYN 154806 is a potent and selective somatostatin sst<sub>2</sub> receptor antagonist.  $plC_{50}$  values are 8.58, 5.41, 6.07, 5.76 and 6.48 for human recombinant sst<sub>2</sub>, sst<sub>1</sub>, sst<sub>3</sub>, sst<sub>4</sub> and sst<sub>5</sub> receptors respectively.

#### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{56}H_{68}N_{12}O_{14}S_2$ Batch Molecular Weight: 1197.35 Physical Appearance: White Iyophilised solid

#### **Peptide Sequence:**



#### Storage: Store at -20°C

#### Solubility & Usage Info:

Soluble to 1 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.

#### 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 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  $\mu$ m filter to remove potential bacterial contamination whenever possible.

#### **References:**

Hannon et al (2002) Drug design at peptide receptors. Somatostatin receptor ligands. J.Mol.Neurosci. 18 15. PMID: 11931345.

**Feniuk** *et al* (2000) Selective somatostatin sst<sub>2</sub> receptor blockade with the novel cyclic octapeptide, CYN-154806. Neuropharmacology **39** 1443. PMID: 10818260.

Bass et al (1996) Identification and characterization of novel somatostatin antagonists. Mol.Pharmacol. 50 709. PMID: 8863814.

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