

**Certificate of Analysis**[www.tocris.com](http://www.tocris.com)**Product Name:** Seglitide**Catalog No.:** 1836**Batch No.:** 4

CAS Number: 81377-02-8

**1. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Batch Molecular Formula:</b>	C <sub>44</sub> H <sub>56</sub> N <sub>8</sub> O <sub>7</sub>
<b>Batch Molecular Weight:</b>	808.98
<b>Physical Appearance:</b>	White lyophilised solid
<b>Net Peptide Content:</b>	77%
<b>Counter Ion:</b>	TFA
<b>Solubility:</b>	Soluble to 1 mg/ml in water
<b>Storage:</b>	Desiccate at -20°C
<b>Peptide Sequence:</b>	Cyclo(N-methyl-Ala-Tyr-D-Trp-Lys-Val-Phe)

**2. ANALYTICAL DATA**

<b>HPLC:</b>	Shows 99.5% purity
<b>Mass Spectrum:</b>	Consistent with structure

**3. AMINO ACID ANALYSIS DATA**

	<b>Amino Acid Theoretical Actual</b>	<b>Amino Acid Theoretical Actual</b>	
Ala		Lys	1.00
Arg		Met	
Asx		Phe	1.00
Cys		Pro	
Glx		Ser	
Gly		Thr	
His		Trp	
Ile		Tyr	1.00
Leu		Val	1.00
			1.02
			1.04
			1.02
			0.97

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

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## Product Information

[www.tocris.com](http://www.tocris.com)**Product Name:** Seglitide

CAS Number: 81377-02-8

**Catalog No.:** 1836**Batch No.:** 4**Description:**

Peptide agonist for  $sst_2$  and  $sst_5$  somatostatin receptors.  $IC_{50}/K_d$  values (nM) at cloned human somatostatin receptors are: > 1000 ( $sst_1$ ), 0.2 - 1.5 ( $sst_2$ ), 27 - 36 ( $sst_3$ ), > 127 ( $sst_4$ ), and 0.06 - 23 ( $sst_5$ ).

**Physical and Chemical Properties:**Batch Molecular Formula:  $C_{44}H_{56}N_8O_7$ 

Batch Molecular Weight: 808.98

Physical Appearance: White lyophilised solid

**Peptide Sequence:**Cyclo(*N*-methyl-Ala-Tyr-D-Trp-Lys-Val-Phe)**Storage:** Desiccate 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.

**Net Peptide Content:** 77% (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 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.

Hoyer *et al* (1994) Molecular pharmacology of somatostatin receptors. *Naunyn Schmiedebergs Arch.Pharmacol.* **350** 441. PMID: 7870182.

Raynor *et al* (1993) Cloned somatostatin receptors: identification of subtype-selective peptides and demonstration of high affinity binding to linear peptides. *Mol.Pharmacol.* **43** 838. PMID: 8100350.

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