

Certificate of Analysis

Product Name: Cortistatin-8

Catalog No.: 3033

Batch No.: 1

CAS Number: 485803-62-1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₇ H ₆₈ N ₁₂ O ₉ S ₂	
Batch Molecular Weight:	1009.25	
Physical Appearance:	lyophilised solid	
Net Peptide Content:	66%	
Counter Ion:	Trifluoroacetate	
Solubility:	Soluble to 2 mg/ml in 20% acetonitrile	
Storage:	Desiccate at -20°C	
Peptide Sequence:	<table style="margin-left: 40px;"> <tr> <td style="border-top: 1px solid black; border-bottom: 1px solid black;">Pro-Cys-Phe-D-Trp-Lys-Thr-Cys-Lys-NH₂</td> </tr> </table>	Pro-Cys-Phe-D-Trp-Lys-Thr-Cys-Lys-NH ₂
Pro-Cys-Phe-D-Trp-Lys-Thr-Cys-Lys-NH ₂		

2. ANALYTICAL DATA

HPLC:	Shows >98% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	2.00	2.02
Arg			Met		
Asx			Phe	1.00	0.99
Cys			Pro	1.00	0.99
Glx			Ser		
Gly			Thr		
His			Trp		
Ile			Tyr		
Leu			Val		

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

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Description:

Synthetic cortistatin analog that lacks the ability to bind somatostatin receptors but retains ghrelin receptor binding. Acts as a ghrelin receptor antagonist; counteracts the response of ghrelin on gastric acid secretion.

Physical and Chemical Properties:Batch Molecular Formula: C₄₇H₆₈N₁₂O₉S₂

Batch Molecular Weight: 1009.25

Physical Appearance: lyophilised solid

Peptide Sequence:

Pro-Cys-Phe-D-Trp-Lys-Thr-Cys-Lys-NH₂

Storage: Desiccate at -20°C**Solubility & Usage Info:**

Soluble to 2 mg/ml in 20% acetonitrile

Net Peptide Content: 66% (Remaining weight made up of counterions and residual water).**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:

Luque et al (2006) Cortistatin mimics somatostatin by inducing a dual, dose-dependent stimulatory and inhibitory effect on growth hormone secretion in somatotropes. *J.Mol.Endocrinol.* **36** 547. PMID: 16720722.

Sibilia et al (2006) Evidence for a role of the GHS-R_{1a} receptors in ghrelin inhibition of gastric acid secretion in the rat. *J.Neuroendocrinol.* **18** 122. PMID: 16420281.

Prodram et al (2008) Cortistatin-8, a synthetic cortistatin-derived ghrelin receptor ligand, does not modify the endocrine responses to acylated ghrelin or hexarelin in humans. *Neuropeptides* **42** 89. PMID: 18061663.

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