

Certificate of Analysis

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Product Name: [D-p-Cl-Phe⁶,Leu¹⁷]-VIP

Catalog No.: 3054

Batch No.: 12

CAS Number: 102805-45-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄₈H₂₃₉ClN₄₄O₄₂
Batch Molecular Weight: 3342.24
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: His-Ser-Asp-Ala-Val-p-Cl-D-Phe-Thr-Asp-Asn-Tyr-Thr-Arg-Leu-Arg-Lys-Gln-Leu-Ala-Val-Lys-Lys-Tyr-Leu-Asn-Ser-Ile-Leu-Asn-NH₂

2. ANALYTICAL DATA

HPLC: Shows 96.6% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala	2.00	1.95	Lys	3.00	3.08
Arg	2.00	1.85	Met		
Asx	5.00	4.98	Phe		
Cys			Pro		
Glx	1.00	1.02	Ser	2.00	1.95
Gly			Thr	2.00	1.87
His	1.00	0.92	Trp		
Ile	1.00	1.05	Tyr	2.00	2.04
Leu	4.00	4.26	Val	2.00	1.98

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

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Product Name: [D-p-CI-Phe⁶,Leu¹⁷]-VIP**Catalog No.:** 3054**Batch No.:** 12

CAS Number: 102805-45-8

Description:

[D-p-CI-Phe⁶,Leu¹⁷]-VIP is a selective vasoactive intestinal peptide (VIP) receptor antagonist (IC₅₀ = 125.8 nM). Displays no activity on glucagon, secretin or GRF receptors.

Physical and Chemical Properties:Batch Molecular Formula: C₁₄₈H₂₃₉ClN₄₄O₄₂

Batch Molecular Weight: 3342.24

Physical Appearance: White lyophilised solid

Peptide Sequence:

His-Ser-Asp-Ala-Val-p-CI-D-Phe-Thr-Asp-Asn-
Tyr-Thr-Arg-Leu-Arg-Lys-Gln-Leu-Ala-Val-
Lys-Lys-Tyr-Leu-Asn-Ser-Ile-Leu-Asn-NH₂

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

Soluble to 1 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: 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.

References:

Xie et al (2007) Vasoactive intestinal peptide transactivates the androgen receptor through a protein kinase A-dependent extracellular signal-regulated kinase pathway in prostate cancer LNCaP cells. *Mol.Pharmacol.* **72** 73. PMID: 17430995.

Pozo et al (1997) Characterization of VIP receptor-effector system antagonists in rat and mouse peritoneal macrophages. *Eur.J.Pharmacol.* **321** 379. PMID: 9085051.

Pandol et al (1986) Vasoactive intestinal peptide receptor antagonist [4CI-D-Phe⁶,Leu¹⁷]VIP. *Am.J.Physiol.* **250** G553. PMID: 2421587.

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