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Print Date: Jan 20th 2023

Certificate of Analysis

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Product Name: PACAP 6-38 CAS Number: 143748-18-9 Catalog No.: 3236 Bat

Batch No.: 8

1. PHYSICAL AND CHEMICAL PROPERTIES

	Batch Molecular Formula:	C ₁₈₂ H ₃₀₀ N ₅₆ O ₄₅ S
	Batch Molecular Weight:	4024.78
	Physical Appearance:	White lyophilised solid
	Counter Ion:	Acetate
	Solubility:	Soluble to 2 mg/ml in water
	Storage:	Store at -20°C
	Peptide Sequence:	Phe-Thr-Asp-Ser-Tyr-Ser-Arg-Tyr-Arg-Lys- Gin-Met-Ala-Val-Lys-Lys-Tyr-Leu-Ala-Ala- Val-Leu-Gly-Lys-Arg-Tyr-Lys-Gin-Arg-Val- Lys-Asn-Lys-NH ₂
2.	ANALYTICAL DATA	
	HPLC:	Shows 98.0% purity
	Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid The				d Theoretica	heoretical Actual	
Ala	3.00	2.89	Lys	7.00	6.97	
Arg	4.00	3.81	Met	1.00	0.87	
Asx	2.00	2.03	Phe	1.00	0.99	
Cys			Pro			
Glx	2.00	2.03	Ser	2.00	1.88	
Gly	1.00	1.06	Thr	1.00	0.99	
His			Trp			
lle			Tyr	4.00	4.04	
Leu	2.00	2.07	Val	3.00	2.97	

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

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Product Name: PACAP 6-38

PACAP 6-38 is a potent and competitive pituitary adenylate

cyclase-activating polypeptide receptor $(PAC)_1$ antagonist $(IC_{50} =$

2 nM). Inhibits PACAP(1-27)-induced stimulation of adenylate

cyclase (K_i = 1.5 nM). Antitumor activity in vivo.

Batch Molecular Formula: C182H300N56O45S

Physical Appearance: White lyophilised solid

Phe-Thr-Asp-Ser-Tyr-Ser-Arg-Tyr-Arg-Lys-

GIn-Met-Ala-Val-Lys-Lys-Tyr-Leu-Ala-Ala-

Val-Leu-Gly-Lys-Arg-Tyr-Lys-Gln-Arg-Val-

Physical and Chemical Properties:

Batch Molecular Weight: 4024.78

Peptide Sequence:

Lys-Asn-Lys-NH₂

CAS Number: 143748-18-9

Description:

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 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: Acetate

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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Kojro *et al* (2006) The neuropeptide PACAP promotes a-secretase pathway for processing Alzheimer amyloid precursor protein. FASEB J. **20** 512. PMID: 16401644.

Leyton et al (1998) PACAP(6-38) inhibits growth of prostate cancer cells. Cancer Lett. 125 131. PMID: 9566707.

Robberecht *et al* (1992) Structural requirements for the occupancy of pituitary adenylate-cyclase-activating-peptide (PACAP) receptors and adenylate cyclase activation in human neuroblastoma NB-OK-1 cell membranes. Discovery of PACAP(6-38) as a potent antagonist. Eur.J.Biochem. **207** 239. PMID: 1321043.

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