

Certificate of Analysis

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Product Name: PAMP-12 (human, porcine)

Catalog No.: 6551

Batch No.: 12

CAS Number: 196305-05-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₇₇ H ₁₁₉ N ₂₅ O ₁₄
Batch Molecular Weight:	1618.95
Physical Appearance:	White lyophilised solid
Counter Ion:	Trifluoroacetate
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Phe-Arg-Lys-Lys-Trp-Asn-Lys-Trp-Ala-Leu-Ser-Arg-NH ₂

2. ANALYTICAL DATA

HPLC:	Shows 96.5% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	1.00	1.00	Lys	3.00	2.99
Arg	2.00	2.00	Met		
Asx	1.00	1.00	Phe	1.00	1.01
Cys			Pro		
Glx			Ser	1.00	0.78
Gly			Thr		
His			Trp	2.00	1.04
Ile			Tyr		
Leu	1.00	1.00	Val		

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

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Batch No.: 12

CAS Number: 196305-05-2

Description:

PAMP-12 (human, porcine) is a potent endogenous peptide agonist of Mas related GPR X2 (MRGPRX2, EC₅₀ = 57.2 nM). Corresponds to amino acids 9 to 20 of proadrenomedullin.

Physical and Chemical Properties:

Batch Molecular Formula: C₇₇H₁₁₉N₂₅O₁₄

Batch Molecular Weight: 1618.95

Physical Appearance: White lyophilised solid

Peptide Sequence:

Phe-Arg-Lys-Lys-Trp-Asn-Lys-Trp-Ala-Leu-Ser-Arg-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: 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:

Lansu et al (2017) *In silico* design of novel probes for the atypical opioid receptor MRGPRX2. Nat.Chem.Biol. **13** 529. PMID: 28288109.

Kamohara et al (2005) Identification of MrgX2 as a human G-protein-coupled receptor for proadrenomedullin N-terminal peptides. Biochem.Biophys.Res.Commun. **330** 1146. PMID: 15823563.

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