Print Date: Mar 12th 2024

Certificate of Analysis

www.tocris.com

Product Name: PAMP-20 (human) CAS Number: 150238-87-2

biotechne[®]

TOCRIS

Catalog No.: 6552 Ba

Batch No.: 4

1. PHYSICAL AND CHEMICAL PROPERTIES

C ₁₁₂ H ₁₇₈ N ₃₆ O ₂₇
2460.87
White lyophilised solid
TFA
Soluble to 1 mg/ml in water
Store at -20°C
Ala-Arg-Leu-Asp-Val-Ala-Ser-Glu-Phe-Arg- Lys-Lys-Trp-Asn-Lys-Trp-Ala-Leu-Ser-Arg-NH ₂

2. ANALYTICAL DATA

HPLC:	Shows 98.3% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid Theoretical Actual

Ala	3.00	2.92	Lys	3.00	3.02
Arg	3.00	3.04	Met		
Asx	2.00	2.03	Phe	1.00	1.03
Cys			Pro		
Glx	1.00	1.03	Ser	2.00	1.56
Gly			Thr		
His			Trp	2.00	1.07
lle			Tyr		
Leu	2.00	1.97	Val	1.00	0.97

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

Product Information

PAMP-20 (human) Product Name:

CAS Number: 150238-87-2

Description:

PAMP-20 (human) is an endogenous peptide agonist of Mas related GPR X2 (MRGPRX2, EC₅₀ = 251 nM). Also a noncompetitive nicotinic cholinergic antagonist. Inhibits nicotinestimulated catecholamine secretion from PC12 cells in vitro, and from sympathetic nerve endings and adrenal chromaffin cells in vivo. Corresponds to amino acids 1 - 20 of proadrenomedullin. Antihypertensive.

Physical and Chemical Properties:

Batch Molecular Formula: C112H178N36O27 Batch Molecular Weight: 2460.87 Physical Appearance: White lyophilised solid

Peptide Sequence:

Ala-Arg-Leu-Asp-Val-Ala-Ser-Glu-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: 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 µm filter to remove potential bacterial contamination whenever possible.

References:

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.

Mahata et al (1998) Proadrenomedullin N-terminal 20 peptide: minimal active region to regulate nicotinic receptors. Hypertension 32 907. PMID: 9822452.

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

bio-techne.com North America China Europe Middle East Africa **Rest of World** info@bio-techne.com Tel: (800) 343 7475 info.cn@bio-techne.com Tel: +44 (0)1235 529449 www.tocris.com/distributors Tel: +86 (21) 52380373 Tel:+1 612 379 2956 techsupport@bio-techne.com

www.tocris.com

Catalog No.: 6552

4

