

Certificate of Analysis

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Product Name:Apelin-17 (human, bovine)CAS Number:217082-57-0

TOCRIS

a biotechne brand

Catalog No.: 3007

Batch No.: 4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{96}H_{156}N_{34}O_{20}S$		
Batch Molecular Weight:	2138.56		
Physical Appearance:	White lyophilised solid		
Counter Ion:	TFA		
Solubility:	Soluble to 1.20 mg/ml in water		
Storage:	Store at -20°C		
Peptide Sequence:	Lys-Phe-Arg-Arg-Gin-Arg-Pro-Arg-Leu-Ser- His-Lys-Gly-Pro-Met-Pro-Phe		
2. ANALYTICAL DATA			

HPLC:	Shows 98.1% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid Theoretical Actual

Ala			Lys	2.00	2.01
Arg	4.00	3.91	Met	1.00	0.97
Asx			Phe	2.00	2.00
Cys			Pro	3.00	3.00
Glx	1.00	1.03	Ser	1.00	1.02
Gly	1.00	1.03	Thr		
His	1.00	1.09	Trp		
lle			Tyr		
Leu	1.00	1.03	Val		

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

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cAMP

Batch No.: 4

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Product Name: Apelin-17 (human, bovine)

inhibits

Lys-Phe-Arg-Arg-Gin-Arg-Pro-Arg-Leu-Ser-

Apelin-17 (human, bovine) is an endogenous apelin receptor

forskolin-stimulated

CAS Number: 217082-57-0

Potently

Batch Molecular Weight: 2138.56

Physical and Chemical Properties:

Batch Molecular Formula: C₉₆H₁₅₆N₃₄O₂₀S

Physical Appearance: White lyophilised solid

accumulation ($pIC_{50} = 9.94$).

Peptide Sequence:

Description:

agonist.

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.

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Counter Ion: TFA

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:

De Mota et al (2004) Apelin, a potent diuretic neuropeptide counteracting vasopressin actions through inhibition of vasopressin neuron activity and vasopressin release. Proc.Natl.Acad.Sci. USA 101 10464.

Medhurst et al (2003) Pharmacological and immunohistochemical characterization of the APJ receptor and its endogenous ligand apelin. J.Neurochem. 84 1162. PMID: 12603839.

Tatemoto et al (1998) Isolation and characterization of a novel endogenous peptide ligand for the human APJ receptor. Biochem.Biophys.Res.Comms. 251 471.

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Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1.20 mg/ml in water

Stability and Solubility Advice:

His-Lys-Gly-Pro-Met-Pro-Phe