

Certificate of Analysis

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Product Name: Angiotensin (1-7)

Catalog No.: 1562

Batch No.: 12

CAS Number: 51833-78-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₁H₆₂N₁₂O₁₁
Batch Molecular Weight: 899
Physical Appearance: White lyophilised solid
Net Peptide Content: 83%
Counter Ion: Acetate
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Asp-Arg-Val-Tyr-Ile-His-Pro

2. ANALYTICAL DATA

HPLC: Shows 99% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys			
Arg	1.00	1.06	Met				
Asx	1.00	1.02	Phe				
Cys			Pro	1.00	1.03		
Glx			Ser				
Gly			Thr				
His	1.00	0.97	Trp				
Ile	1.00	0.97	Tyr	1.00	0.99		
Leu			Val	1.00	1.01		

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

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Description:

Endogenous peptide fragment. Induces vasorelaxation through release of NO and prostaglandins, perhaps through activation of a non-AT₁, non-AT₂ receptor, Mas. Counteracts the vasoconstrictive and proliferative effects of angiotensin II and stimulates vasopressin (anti-diuretic hormone) release in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₁H₆₂N₁₂O₁₁

Batch Molecular Weight: 899

Physical Appearance: White lyophilised solid

Peptide Sequence:

Asp-Arg-Val-Tyr-Ile-His-Pro

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 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.

Net Peptide Content: 83% (Remaining weight made up of counterions and residual water).

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 µm filter to remove potential bacterial contamination whenever possible.

References:

Santos *et al* (2003) Angiotensin-(1-7) is an endogenous ligand for the G protein-coupled receptor Mas. *Proc.Natl.Acad.Sci.U.S.A.* **100** 8258. PMID: 12829792.

Lemos *et al* (2002) Angiotensin-(1-7) is involved in the endothelium-dependent modulation of phenylephrine-induced contraction in the aorta of mRen-2 transgenic rats. *Br.J.Pharmacol.* **135** 1743. PMID: 11934815.

Santos *et al* (2000) Angiotensin-(1-7): an update. *Regul.Pept.* **91** 45. PMID: 10967201.

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