

Certificate of Analysis

www.tocris.com

Product Name: Angiotensin (1-7)

Catalog No.: 1562

Batch No.: 13

CAS Number: 51833-78-4

1. PHYSICAL AND CHEMICAL PROPERTIES

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

2. ANALYTICAL DATA

HPLC: Shows 99.3% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys			
Arg	1.00	1.00	Met				
Asx	1.00	1.05	Phe				
Cys			Pro	1.00	1.08		
Glx			Ser				
Gly			Thr				
His	1.00	0.94	Trp				
Ile	1.00	1.05	Tyr	1.00	0.97		
Leu			Val	1.00	0.96		

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

bio-techne.com
 info@bio-techne.com
 techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
 info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
 Tel:+1 612 379 2956

Product Name: Angiotensin (1-7)

Catalog No.: 1562

13

CAS Number: 51833-78-4

Description:

Angiotensin (1-7) is an 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: Store 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.

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 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:

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.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956