biotechne		Print Date: Dec 18th 2024		
TOCRIS	Certificate of Analysis	www.tocris.com		
Product Name:Atrial natriuretic faCAS Number:88898-17-3	ctor (1-28) (rat)	Catalog No.: 1912	Batch No.: 11	
1. PHYSICAL AND CHEMICAL PRO	PERTIES			
Batch Molecular Formula:	$C_{128}H_{205}N_{45}O_{39}S_2$			
Batch Molecular Weight:	3062.43			
Physical Appearance:	White lyophilised solid			
Counter Ion:	Trifluoroacetate			
Solubility:	Soluble to 1 mg/ml in water			
Storage:	Store at -20°C			
Peptide Sequence:	Ser-Leu-Arg-Arg-Ser-Ser-Cys-F Arg-Ile-Asp-Arg-Ile-Gly-Ala-Gl Leu-Gly-Cys-Asn-Ser-Phe-	In-Ser-Gly-		

2. ANALYTICAL DATA

HPLC:	Shows 95.0% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid Theoretical Actual

Ala	1.00	1.01	Lys		
Arg	5.00	4.86	Met		
Asx	2.00	2.05	Phe	2.00	2.05
Cys	2.00	0.94	Pro		
Glx	1.00	1.02	Ser	5.00	3.59
Gly	5.00	5.07	Thr		
His			Trp		
lle	2.00	2.02	Tyr	1.00	0.75
Leu	2.00	1.92	Val		

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

biotechne TOCRIS

Product Information

www.tocris.com

Batch No.: 11

Product Name: Atrial natriuretic factor (1-28) (rat)

CAS Number: 88898-17-3

Description:

Atrial natriuretic factor (1-28) (rat) is an endogenous peptide produced by the heart; involved in blood pressure regulation. Produces natriuresis, diuresis and vasorelaxation in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₂₈H₂₀₅N₄₅O₃₉S₂ Batch Molecular Weight: 3062.43 Physical Appearance: White Iyophilised solid

Peptide Sequence:

Ser-Leu-Arq-Arq-Ser-Ser-Cys-Phe-Gly-Gly-Arg-Ile-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Phe-Arg-Tyr

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.

Catalog No.: 1912

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 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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Rubattu and Volpe (2001) The atrial natriuretic peptide: a changing view. J.Hypertens. **19** 1923. PMID: 11677356. **Atlas** *et al* (1985) Atrial natriuretic factor (auriculin): structure and biological effects. J.Clin.Hypertens. **1** 187. PMID: 2941526. **de Bold** *et al* (1985) Atrial natriuretic factor: a hormone produced by the heart. Science **230** 767. PMID: 2932797.

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