



Certificate of Analysis

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Product Name: Atrial natriuretic factor (1-28) (human, porcine) Catalog No.: 1906 Batch No.: 14

CAS Number: 91917-63-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{127}H_{205}N_{45}O_{39}S_3$

Batch Molecular Weight: 3080.46

Physical Appearance: White lyophilised solid

Counter Ion: TFA

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence:

Ser-Leu-Arg-Arg-Ser-Ser-Cýs-Phe-Gly-Gly-Arg-Met-Asp-Arg-IIe-Gly-Ala-Gln-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Phe-Arg-Tyr

2. ANALYTICAL DATA

HPLC: Shows 95.1% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	1.00	1.08	Lys		
Arg	5.00	4.86	Met	1.00	1.05
Asx	2.00	1.99	Phe	2.00	2.06
Cys	2.00	1.19	Pro		
Glx	1.00	1.05	Ser	5.00	4.02
Gly	5.00	4.85	Thr		
His			Trp		
lle	1.00	1.08	Tyr	1.00	1.02
Leu	2.00	1.96	Val		

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



Product Information

Print Date: Jun 11th 2025

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CAS Number: 91917-63-4

Description:

Atrial natriuretic factor (1-28) (human, porcine) 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: $C_{127}H_{205}N_{45}O_{39}S_3$

Batch Molecular Weight: 3080.46

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ser-Leu-Arg-Arg-Ser-Ser-Cys-Phe-Gly-Gly-Arg-Met-Asp-Arg-IIe-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.

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:

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.

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