Print Date: Mar 8th 2024

Certificate of Analysis

www.tocris.com

Product Name: Atrial natriuretic factor (1-28) (rat) CAS Number: 88898-17-3

Catalog No.: 1912 Batch No.: 10

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: **Peptide Sequence:**

 $C_{128}H_{205}N_{45}O_{39}S_2$ 3062.43 White lyophilised solid Soluble to 1 mg/ml in water Store at -20°C Ser-Leu-Arg-Arg-Ser-Ser-Cys-Phe-Gly-Gly-Arg-Ile-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Leu-Gly-Cys-Asn-Ser-Phe-Arg-Tyr

2. ANALYTICAL DATA

HPLC: Mass Spectrum:

Shows 90.6% purity Consistent with structure

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



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Product Information

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

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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

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ 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.

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