

Certificate of Analysis

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Product Name: [Lys⁸]-Vasopressin

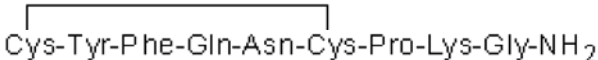
Catalog No.: 2934

Batch No.: 3

CAS Number: 50-57-7

EC Number: 200-050-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₆H₆₅N₁₃O₁₂S₂
Batch Molecular Weight: 1056.22
Physical Appearance: White lyophilised solid
Net Peptide Content: 72%
Counter Ion: TFA
Solubility: Soluble to 0.90 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: 
 Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Lys-Gly-NH₂

2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala			Lys	1.00	1.00
Arg			Met		
Asx	1.00	1.00	Phe	1.00	1.10
Cys			Pro	1.00	1.00
Glx	1.00	1.00	Ser		
Gly	1.00	1.00	Thr		
His			Trp		
Ile			Tyr	1.00	0.90
Leu			Val		

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: [Lys⁸]-Vasopressin

Catalog No.: 2934

Batch No.: 3

CAS Number: 50-57-7

EC Number: 200-050-5

Description:

Antidiuretic hormone found in pigs and some marsupial families. Induces contraction of the rabbit urinary bladder smooth muscle.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₆H₆₅N₁₃O₁₂S₂

Batch Molecular Weight: 1056.22

Physical Appearance: White lyophilised solid

Peptide Sequence:

Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Lys-Gly-NH₂

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 0.90 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: 72% (Remaining weight made up of counterions and residual water).

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 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:

Gorbulev et al (1993) Molecular cloning and functional characterization of V2 [8-lysine] vasopressin and oxytocin receptors from a pig kidney cell line. *Eur.J.Biochem.* **215** 1. PMID: 8393786.

Crankshaw (1989) [Arg⁸]vasopressin-induced contractions of rabbit urinary bladder smooth muscle. *Eur.J.Pharmacol.* **173** 183. PMID: 2625135.

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