

Certificate of Analysis

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Product Name: [Arg⁸]-Vasopressin

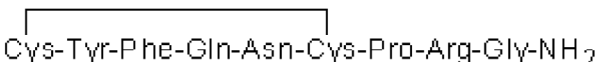
Catalog No.: 2935

Batch No.: 10

CAS Number: 113-79-1

EC Number: 204-035-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₄₆ H ₆₅ N ₁₅ O ₁₂ S ₂
Batch Molecular Weight:	1084.23
Physical Appearance:	White lyophilised solid
Counter Ion:	Acetate
Solubility:	Soluble to 0.50 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	

2. ANALYTICAL DATA

HPLC:	Shows 99.7% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala			Lys		
Arg	1.00	1.01	Met		
Asx	1.00	1.00	Phe	1.00	0.98
Cys	2.00	Detected	Pro	1.00	1.02
Glx	1.00	1.00	Ser		
Gly	1.00	0.99	Thr		
His			Trp		
Ile			Tyr	1.00	1.03
Leu			Val		

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

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Description:

[Arg⁸]-Vasopressin is an antidiuretic hormone found in most mammalian species. Also acts as a neurotransmitter at synapses in the brain; increases [Ca²⁺]_i in cultured rat hippocampal neurons.

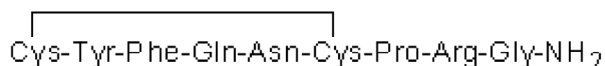
Physical and Chemical Properties:

Batch Molecular Formula: C₄₆H₆₅N₁₅O₁₂S₂

Batch Molecular Weight: 1084.23

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 0.50 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: 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:

Chan et al (2000) Discovery and design of novel and selective vasopressin and oxyt. agonists and antagonists: the role of bioassays. *Exp.Physiol.* **85S** 7S.

Cowley et al (2000) Control of renal medulaary circulation by vasopressin V₁ and V₂ receptors in the rat. *Exp.Physiol.* **85S** 223S.

Migara et al (1999) [Arg⁸]-vasopressin-induced increase in intracellular Ca²⁺ concentration in culttured rat hippocampal neurons. *Brain Res.Bull.* **49** 343. PMID: 10452354.

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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