

Certificate of Analysis

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Product Name: [Phe⁸ψ(CH-NH)-Arg⁹]-Bradykinin

Catalog No.: 3229

Batch No.: 5

CAS Number: 118122-39-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₅₀ H ₇₅ N ₁₅ O ₁₀
Batch Molecular Weight:	1046.23
Physical Appearance:	White lyophilised solid
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Arg-Pro-Pro-Gly-Phe-Ser-Pro-Phe-ψ(CH-NH)-Arg

2. ANALYTICAL DATA

HPLC:	Shows 98.0% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala				Lys			
Arg	2.00		0.99	Met			
Asx				Phe	2.00		1.00
Cys				Pro	3.00		2.95
Glx				Ser	1.00		1.00
Gly	1.00		1.02	Thr			
His				Trp			
Ile				Tyr			
Leu				Val			

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

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Catalog No.: 3229

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CAS Number: 118122-39-7

Description:

[Phe⁸Ψ(CH-NH)-Arg⁹]-Bradykinin is a selective bradykinin B₂ receptor agonist that is resistant to carboxypeptidase cleavage. 5-fold more potent and exhibits a more prolonged duration of action than bradykinin (Cat No. 3004) in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₅₀H₇₅N₁₅O₁₀

Batch Molecular Weight: 1046.23

Physical Appearance: White lyophilised solid

Peptide Sequence:

Arg-Pro-Pro-Gly-Phe-Ser-Pro-Phe-ψ(CH-NH)-Arg

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 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

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:

Leeb-Lundberg et al (2005) International union of pharmacology. XLV. Classification of the kinin receptor family: from molecular mechanisms to pathophysiological consequences. *Pharmacol.Rev.* **57** 27. PMID: 15734727.

Marceau et al (2002) Kinin receptors: functional aspects. *Int.Immunopharmacol.* **2** 1729. PMID: 12489786.

Drapeau et al (1988) [Phe⁸Ψ(CH₂-NH)Arg⁹]bradykinin, a B₂ receptor selective agonist which is not broken down by either kininase I or kininase II. *Eur.J.Pharmacol.* **155** 193. PMID: 2907489.

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