

Certificate of Analysis

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Product Name:[Phe⁸Ψ(CH-NH)-Arg⁹]-BradykininCAS Number:118122-39-7

Catalog No.: 3229

Batch No.: 4

1. PHYSICAL AND CHEMICAL PROPERTIES

TOCRIS

a biotechne brand

	Batch Molecular Formula:	C ₅₀ H ₇₅ N ₁₅ O ₁₀
	Batch Molecular Weight:	1046.23
	Physical Appearance:	White lyophilised solid
	Net Peptide Content:	67%
	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 97.5% purity
	Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid Theoretical Actual

Ala			Lys		
Arg	2.00	1.06	Met		
Asx			Phe	2.00	0.98
Cys			Pro	3.00	2.98
Glx			Ser	1.00	1.00
Gly	1.00	1.04	Thr		
His			Trp		
lle			Tyr		
Leu			Val		

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

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Batch No.: 4

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[Phe⁸Ψ(CH-NH)-Arg⁹]-Bradykinin Product Name:

[Phe84(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

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

CAS Number:

Description:

118122-39-7

action than bradykinin (Cat No. 3004) in vivo.

Physical Appearance: White lyophilised solid

Physical and Chemical Properties:

Batch Molecular Weight: 1046.23

Peptide Sequence:

Batch Molecular Formula: C₅₀H₇₅N₁₅O₁₀

Storage: Store at -20°C

Solubility & Usage Info:

This product is supplied as a lyophilized solid and may be very

Catalog No.: 3229

Net Peptide Content: 67% (Remaining weight made up of

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

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:

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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Soluble to 1 mg/ml in water

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

counterions and residual water). Counter Ion: TFA

water bath).