Print Date: Mar 30th 2023

Certificate of Analysis

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Product Name:	Lys-[Des-Arg ⁹]Bradykinin	
CAS Number:	71800-36-7	

biotechne[®]

TOCRIS

Catalog No.: 3225 Ba

Batch No.: 6

1. PHYSICAL AND CHEMICAL PROPERTIES

	Batch Molecular Formula:	$C_{50}H_{73}N_{13}O_{11}$
	Batch Molecular Weight:	1032.21
	Physical Appearance:	White lyophilised solid
	Counter Ion:	TFA
	Solubility:	Soluble to 1 mg/ml in water
	Storage:	Store at -20°C
	Peptide Sequence:	Lys-Arg-Pro-Pro-Gly-Phe-Ser-Pro-Phe
2.	ANALYTICAL DATA	
	HPLC:	Shows 95.4% 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	1.00	0.98	Met		
Asx			Phe	2.00	2.01
Cys			Pro	3.00	3.01
Glx			Ser	1.00	0.67
Gly	1.00	1.00	Thr		
His			Trp		
lle			Tyr		
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: Lys-[Des-Arg⁹]Bradykinin

CAS Number: 71800-36-7

Description:

Lys-[Des-Arg⁹]Bradykinin is an endogenous potent and highly selective bradykinin B_1 receptor agonist (K_i values are 0.12 and > 30000 nM at human B_1 and B_2 receptors respectively). Hypotensive agent that reduces peripheral vascular resistance in vivo. 16-fold more potent than [Des-Arg⁹]-Bradykinin (Cat No. 3005).

Physical and Chemical Properties:

Batch Molecular Formula: C₅₀H₇₃N₁₃O₁₁ Batch Molecular Weight: 1032.21 Physical Appearance: White Iyophilised solid

Peptide Sequence:

Lys-Arg-Pro-Pro-Gly-Phe-Ser-Pro-Phe

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 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:

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

Regoli et al (2001) Classification of kinin receptors. Biol.Chem. 382 31. PMID: 11258668.

Drapeau *et al* (1991) Hypotensive effects of Lys-des-Arg⁹-Bradykinin and metabolically protected agonists of B₁ receptors for kinins. J.Pharmacol.Exp.Ther. **259** 997. PMID: 1662280.

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