

Certificate of Analysis

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Product Name: Bradykinin

Catalog No.: 3004

Batch No.: 9

CAS Number: 58-82-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₀H₇₃N₁₅O₁₁
Batch Molecular Weight: 1060.22
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-Arg

2. ANALYTICAL DATA

HPLC: Shows 97.8% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys			
Arg	2.00		1.99	Met			
Asx				Phe	2.00		2.02
Cys				Pro	3.00		3.00
Glx				Ser	1.00		0.68
Gly	1.00		1.00	Thr			
His				Trp			
Ile				Tyr			
Leu				Val			

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

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Product Name: Bradykinin

Catalog No.: 3004

9

CAS Number: 58-82-2

Description:

Bradykinin is an endogenous bradykinin receptor agonist that displays selectivity for B₂ over B₁ receptors. Proinflammatory peptide.

Physical and Chemical Properties:

Batch Molecular Formula: C₅₀H₇₃N₁₅O₁₁

Batch Molecular Weight: 1060.22

Physical Appearance: White lyophilised solid

Peptide Sequence:

Arg-Pro-Pro-Gly-Phe-Ser-Pro-Phe-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:

Abraham *et al* (2006) Peptide and non-peptide bradykinin receptor antagonists: role in allergic airway disease *Eur.J.Pharmacol.* **533** 215. PMID: 16455073.

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.

Regoli *et al* (1998) Bradykinin receptors and their antagonists. *Eur.J.Pharmacol.* **348** 1. PMID: 9650825.

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