

Product Name: Bombinakinin M

Catalog No.: 2371

Batch No.: 1

CAS Number: 509151-65-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀₀H₁₅₉N₃₁O₂₄
Batch Molecular Weight: 2179.55
Physical Appearance: White lyophilised solid
Net Peptide Content: 89%
Counter Ion: Trifluoroacetate
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Asp-Leu-Pro-Lys-Ile-Asn-Arg-Lys-Gly-Pro
 Arg-Pro-Pro-Gly-Phe-Ser-Pro-Phe-Arg

2. ANALYTICAL DATA

HPLC: Shows >95% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys	2.00	1.96
Arg	3.00	2.96	Met		
Asx	2.00	1.92	Phe	2.00	2.03
Cys			Pro	5.00	4.72
Glx			Ser	1.00	0.84
Gly	2.00	2.00	Thr		
His			Trp		
Ile	1.00	0.97	Tyr		
Leu	1.00	1.07	Val		

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

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Description:

Potent bradykinin receptor agonist. Highly selective for mammalian arterial smooth muscle bradykinin receptors, displaying ~ 50-fold greater potency than bradykinin. Elicits dose-dependent contractile effects in smooth muscle of guinea pig ileum (EC₅₀ = 4.0 nM).

Physical and Chemical Properties:

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Peptide Sequence:

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

Storage: Desiccate 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.

Net Peptide Content: 89% (Remaining weight made up of counterions and residual water).

Counter Ion: Trifluoroacetate

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:

Lee *et al* (2005) Cloning of bradykinin precursor cDNAs from skin of *Bombina maxima* reveals novel bombinakinin M antagonists and a bradykinin potential peptide. *Regul.Peptides* **127** 207.

O'Rourke *et al* (2004) The smooth muscle pharmacology of maximakinin, a receptor-selective, bradykinin-related nonadecapeptide from the venom of the Chinese toad, *Bombina maxima*. *Regul.Peptides* **121** 65.

Lai *et al* (2001) A novel bradykinin-related peptide from skin secretions of toad *Bombina maxima* and its precursor containing six identical copies of the final product. *Biochem.Biophys.Res.Comm.* **286** 259.

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