

Certificate of Analysis

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Product Name: R 715
CAS Number: 185052-09-9

Catalog No.: 3407 **Batch No.:** 13

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₇H₈₁N₁₃O₁₂
Batch Molecular Weight: 1140.35
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 5 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Ac-Lys-Arg-Pro-Pro-Gly-Phe-Ser-DβNal-Ile

2. ANALYTICAL DATA

HPLC: Shows 95.8% purity
Mass Spectrum: Consistent with structure

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

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Product Name: R 715**Catalog No.:** 3407**13**

CAS Number: 185052-09-9

Description:

R 715 is a potent and selective bradykinin B₁ receptor antagonist (pA₂ = 8.49). Displays no activity at B₂ receptors. Reduces mechanical hypernociception in a mouse model of neuropathic pain. Metabolically stable.

Physical and Chemical Properties:Batch Molecular Formula: C₅₇H₈₁N₁₃O₁₂

Batch Molecular Weight: 1140.35

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Lys-Arg-Pro-Pro-Gly-Phe-Ser-DβNa-Ile

Storage: Store at -20°C**Solubility & Usage Info:**

Soluble to 5 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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:

Abdoun *et al* (2008) Retinal plasma extravasation in streptozotocin-diabetic rats mediated by kinin B₁ and B₂ receptors. *Br.J.Pharmacol.* **154** 136. PMID: 18311190.

Quintao *et al* (2008) Neuropathic pain-like behavior after brachial plexus avulsion in mice: the relevance of kinin B₁ and B₂ receptors. *J.Neurosci.* **28** 2856. PMID: 18337416.

Gobeil *et al* (1996) Structure-activity studies of B₁ receptor-related peptides. *Hypertension.* **28** 833. PMID: 8901831.

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