

Certificate of Analysis

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Product Name: R 892
CAS Number: 229030-05-1

Catalog No.: 3226 **Batch No.:** 4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₈H₈₃N₁₃O₁₂
Batch Molecular Weight: 1154.37
Physical Appearance: White lyophilised solid
Net Peptide Content: 81%
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Ac-Lys-Arg-Pro-Pro-Gly-(αMe)Phe-Ser-DβNal-Ile

2. ANALYTICAL DATA

HPLC: Shows 99% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala			Lys	1.00	1.01
Arg	1.00	1.06	Met		
Asx			Phe		
Cys			Pro	2.00	2.03
Glx			Ser	1.00	0.94
Gly	1.00	1.01	Thr		
His			Trp		
Ile	1.00	0.97	Tyr		
Leu			Val		

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

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
 Tel: +1 612 379 2956

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Batch No.: 4

CAS Number: 229030-05-1

Description:

Potent and selective bradykinin B₁ receptor antagonist (ID₅₀ values are 2.8 and > 600 nM at B₁ and B₂ receptors respectively). Exhibits no intrinsic agonist activity and is resistant to aminopeptidase and kininase II (ACE) cleavage. Displays hypertensive activity in vivo.

Physical and Chemical Properties:

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Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Lys-Arg-Pro-Pro-Gly-(αMe)Phe-Ser-DβNal-Ile

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 2 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: 81% (Remaining weight made up of counterions and residual water).

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:

Duka et al (2003) Mechanisms mediating the vasoactive effects of the B₁ receptors of bradykinin. *Hypertension* **42** 1021. PMID: 14557281.

Gobeil et al (1998) Kinin B₁ receptor antagonists containing α-methyl-L-phenylalanine: in vitro and in vivo antagonistic activities. *Hypertension* **33** 823.

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

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North America

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