

Certificate of Analysiswww.tocris.com**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-(α Me)Phe-Ser-D β Nal-Ile

2. ANALYTICAL DATA

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

3. AMINO ACID ANALYSIS DATA

	Amino Acid Theoretical		Amino Acid Theoretical	
Ala			Lys	1.00
Arg	1.00	1.06	Met	
Asx			Phe	
Cys			Pro	2.00
Glx			Ser	1.00
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

Product Information

www.tocris.com**Product Name:** R 892**Catalog No.:** 3226**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:Batch Molecular Formula: C₅₈H₈₃N₁₃O₁₂

Batch Molecular Weight: 1154.37

Physical Appearance: White lyophilised solid

Peptide Sequence:Ac-Lys-Arg-Pro-Pro-Gly-(α Me)Phe-Ser-D β N al-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 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:

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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