

Certificate of Analysis

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Product Name: GR 73632
CAS Number: 133156-06-6

Catalog No.: 1669 **Batch No.:** 6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₀H₅₉N₇O₆S
Batch Molecular Weight: 766.01
Physical Appearance: White lyophilised solid
Net Peptide Content: 77%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence:



Phe-Phe-Pro-(Me)Leu-Met-NH₂

2. ANALYTICAL DATA

HPLC: Shows 96.1% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala			Lys		
Arg			Met	1.00	0.98
Asx			Phe	2.00	1.80
Cys			Pro	1.00	1.02
Glx			Ser		
Gly			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: GR 73632

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Description:

Potent and selective tachykinin NK₁ receptor agonist (EC₅₀ = 2 nM in guinea pig vas deferens). Active in vivo.

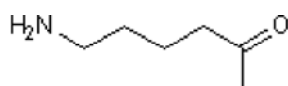
Physical and Chemical Properties:

Batch Molecular Formula: C₄₀H₅₉N₇O₆S

Batch Molecular Weight: 766.01

Physical Appearance: White lyophilised solid

Peptide Sequence:



Phe-Phe-Pro-(Me)Leu-Met-NH₂

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: 77% (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.

Licensing Information:

Sold for research purposes under agreement from GlaxoSmithKline

References:

Sakurada et al (1999) Spinal actions of GR73632, a novel tachykinin NK₁ receptor agonist. *Peptides* **20** 301. PMID: 10422886.

Meini et al (1995) GR 73,632 and [glu(OBzl)¹¹]substance P are selective agonists for the septide-sensitive tachykinin NK₁ receptor in the rat urinary bladder. *Neuropeptides* **28** 99. PMID: 7538205.

Hall and Morton (1991) Novel ligands confirm NK-1 receptor-mediated modulation of neurotransmission in the guinea pig vas deferens preparation. *Ann.N.Y.Acad.Sci.* **632** 404. PMID: 1719888.

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