

# Certificate of Analysis

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

**Catalog No.:** 1669 **Batch No.:** 8

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>40</sub>H<sub>59</sub>N<sub>7</sub>O<sub>6</sub>S  
**Batch Molecular Weight:** 766.01  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Store at -20°C  
**Peptide Sequence:**



Phe-Phe-Pro-(Me)Leu-Met-NH<sub>2</sub>

## 2. ANALYTICAL DATA

**HPLC:** Shows 98.8% 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	1.00
Asx			Phe	2.00	1.98
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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**8**

CAS Number: 133156-06-6

**Description:**

GR 73632 is a potent and selective tachykinin NK<sub>1</sub> receptor agonist (EC<sub>50</sub> = 2 nM in guinea pig vas deferens). Active in vivo. Intrathecal administration of GR 73632 in mice increases itch behavior.

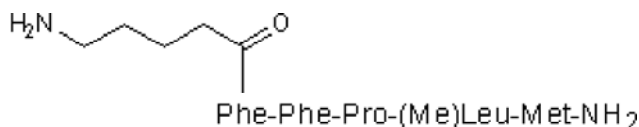
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>40</sub>H<sub>59</sub>N<sub>7</sub>O<sub>6</sub>S

Batch Molecular Weight: 766.01

Physical Appearance: White lyophilised solid

**Peptide Sequence:**



**Storage:** Store 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.

**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:**

**Sheahan *et al*** (2021) The neurokinin-1 receptor is expressed with gastrin-releasing peptide receptor in spinal interneurons and modulates itch. *J.Neurosci.* **40** 8816. PMID: 33051347.

**Sakurada *et al*** (1999) Spinal actions of GR73632, a novel tachykinin NK<sub>1</sub> receptor agonist. *Peptides* **20** 301. PMID: 10422886.

**Meini *et al*** (1995) GR 73,632 and [glu(OBzl)<sup>11</sup>]substance P are selective agonists for the septide-sensitive tachykinin NK<sub>1</sub> receptor in the rat urinary bladder. *Neuropeptides* **28** 99. PMID: 7538205.

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