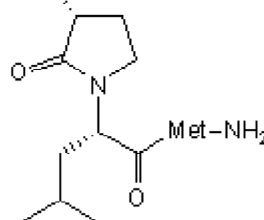


**Product Name:** GR 64349  
**CAS Number:** 137593-52-3

**Catalog No.:** 1668 **Batch No.:** 12

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>42</sub>H<sub>68</sub>N<sub>10</sub>O<sub>11</sub>S  
**Batch Molecular Weight:** 921.12  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** TFA  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Store at -20°C  
**Peptide Sequence:** Lys-Asp-Ser-Phe-Val—NH



**2. ANALYTICAL DATA**

**HPLC:** Shows 97.7% 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		Met	1.00	0.98			
Asx	1.00	Phe	1.00	1.01			
Cys		Pro					
Glx		Ser	1.00	1.00			
Gly		Thr					
His		Trp					
Ile		Tyr					
Leu		Val	1.00	0.98			

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

**Product Name:** GR 64349  
CAS Number: 137593-52-3

**Catalog No.:** 1668 **Batch No.:** 12

**Description:**

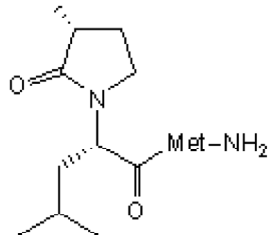
GR 64349 is a potent and selective tachykinin NK<sub>2</sub> receptor agonist (EC<sub>50</sub> = 3.7 nM in rat colon). Displays > 1000- and > 300-fold selectivity over NK<sub>1</sub> and NK<sub>3</sub> receptors respectively. Active in vivo.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>42</sub>H<sub>68</sub>N<sub>10</sub>O<sub>11</sub>S  
Batch Molecular Weight: 921.12  
Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Lys-Asp-Ser-Phe-Val—NH



**Storage:** Store at -20°C

**Solubility & Usage Info:**

Soluble to 1 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.

**Licensing Information:**

Sold for research purposes under agreement from GlaxoSmithKline

**References:**

- Chang *et al*** (2000) Tachykinin receptor subtypes in the isolated guinea pig heart and their role in mediating responses to neurokinin A. *J.Pharmacol.Exp.Ther.* **294** 147. PMID: 10871306.
- Chizh *et al*** (1995) Endogenous modulation of excitatory amino acid responsiveness by tachykinin NK<sub>1</sub> and NK<sub>2</sub> receptors in the rat spinal cord. *Br.J.Pharmacol.* **115** 1013. PMID: 7582497.
- Deal *et al*** (1992) Conformationally constrained tachykinin analogues: potent and highly selective neurokinin NK-2 receptor agonists. *J.Med.Chem.* **35** 4195. PMID: 1331460.

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