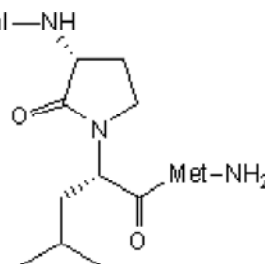


Product Name: GR 64349
CAS Number: 137593-52-3

Catalog No.: 1668 **Batch No.:** 9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₂H₆₈N₁₀O₁₁S
Batch Molecular Weight: 921.12
Physical Appearance: White lyophilised solid
Net Peptide Content: 75%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Lys-Asp-Ser-Phe-Val—NH



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			Met	1.00	1.01
Asx	1.00	0.99	Phe	1.00	0.95
Cys			Pro		
Glx			Ser	1.00	1.01
Gly			Thr		
His			Trp		
Ile			Tyr		
Leu			Val	1.00	1.02

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

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Description:

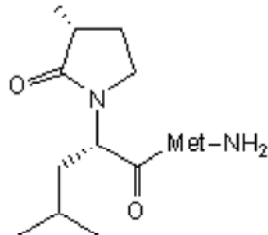
GR 64349 is a potent and selective tachykinin NK₂ receptor agonist (EC₅₀ = 3.7 nM in rat colon). Displays > 1000- and > 300-fold selectivity over NK₁ and NK₃ receptors respectively. Active in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₂H₆₈N₁₀O₁₁S
Batch Molecular Weight: 921.12
Physical Appearance: White lyophilised solid

Peptide Sequence:

Lys-Asp-Ser-Phe-Val—NH



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: 75% (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:

- 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 NK₁ and NK₂ 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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