

Certificate of Analysis

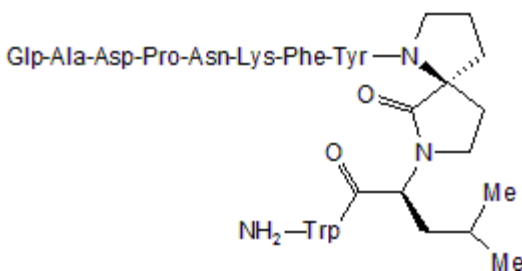
Product Name: GR 82334
CAS Number: 129623-01-4

Catalog No.: 1670

Batch No.: 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₆₉H₉₁N₁₅O₁₆
Batch Molecular Weight: 1386.57
Physical Appearance: White lyophilised solid
Net Peptide Content: 77%
Counter Ion: Acetate
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows >97% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	1.00	0.99	Lys	1.00	0.99
Arg			Met		
Asx	2.00	2.17	Phe	1.00	0.98
Cys			Pro	1.00	0.96
Glx	1.00	1.01	Ser		
Gly			Thr		
His			Trp		
Ile			Tyr	1.00	1.07
Leu			Val		

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

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Description:

Tachykinin NK₁ receptor antagonist.

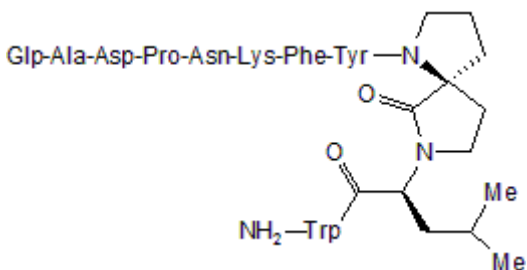
Physical and Chemical Properties:

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Batch Molecular Weight: 1386.57

Physical Appearance: White lyophilised solid

Peptide Sequence:



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: Acetate

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.

References:

Hagan *et al* (1991) A spiro-lactam conformationally-constrained analogue of physalaemin which is a peptidase-resistant, selective neurokinin NK-1 receptor antagonist. *Br.J.Pharmacol.* **102** 168P.

Lecci *et al* (1992) Effect of the NK-1 receptor antagonist GR 82,334 on reflexly-induced bladder contractions. *Life Sci.* **51** PL277. PMID: 1335533.

Guo *et al* (1995) Pharmacological characterisation of GR82334, a tachykinin NK₁ receptor antagonist, in the isolated spinal cord of the neonatal rat. *Eur.J.Pharmacol.* **281** 49. PMID: 8566116.

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