

Product Name: GR 94800
CAS Number: 141636-65-9

Catalog No.: 1667 **Batch No.:** 4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₉H₆₁N₉O₈
Batch Molecular Weight: 904.08
Physical Appearance: Off-white lyophilised solid
Counter Ion: Trifluoroacetate
Solubility: Soluble to 4 mg/ml in ethanol
Storage: Store at -20°C
Peptide Sequence: N-(Bz)Ala-Ala-D-Trp-Phe-D-Pro-Pro-Nle-NH₂

2. ANALYTICAL DATA

HPLC: Shows 95.0% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala		2.00	1.96	Lys			
Arg				Met			
Asx				Phe	2.00	2.01	
Cys				Pro	2.00	2.03	
Glx				Ser			
Gly				Thr			
His				Trp	1.00	0.77	
Ile				Tyr			
Leu				Val			

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Catalog No.: 1667 **Batch No.:** 4

Description:

GR 94800 is a potent and selective tachykinin NK₂ receptor antagonist (pK_B values are 9.6, 6.4 and 6.0 for NK₂, NK₁ and NK₃ receptors respectively). Active in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₉H₆₁N₉O₈

Batch Molecular Weight: 904.08

Physical Appearance: Off-white lyophilised solid

Peptide Sequence:

N-(Bz)Ala-Ala-D-Trp-Phe-D-Pro-Pro-Nle-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 4 mg/ml in ethanol

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: Trifluoroacetate

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:

Matuszek *et al* (1998) An investigation of tachykinin NK₂ receptor subtypes in the rat. *Eur.J.Pharmacol.* **352** 103. PMID: 9718274.

Zagorodnyuk *et al* (1995) Evidence that tachykinin NK₁ and NK₂ receptors mediate non-adrenergic non-cholinergic excitation and contraction in the circular muscle of guinea-pig duodenum. *Br.J.Pharmacol.* **115** 237. PMID: 7545517.

McElroy *et al* (1992) Highly potent and selective heptapeptide antagonists of the neurokinin NK-2 receptor. *J.Med.Chem.* **35** 2582. PMID: 1321907.

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bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956