

Certificate of Analysis

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Product Name: BIM 187
CAS Number: 137734-88-4

Catalog No.: 2716 **Batch No.:** 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅₃H₇₆N₁₄O₁₀
Batch Molecular Weight: 1069.27
Physical Appearance: White lyophilised solid
Net Peptide Content: 76%
Counter Ion: TFA
Solubility: Soluble to 2 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: D-Phe-Gln-Trp-Ala-Val-Gly-His-Leu-Leu-NH₂

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	1.00	0.93	Lys		
Arg			Met		
Asx			Phe	1.00	1.04
Cys			Pro		
Glx	1.00	0.95	Ser		
Gly	1.00	1.00	Thr		
His	1.00	1.03	Trp		
Ile			Tyr		
Leu	2.00	2.10	Val	1.00	0.98

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

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Product Information

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Product Name: BIM 187

Catalog No.: 2716

Batch No.: 2

CAS Number: 137734-88-4

Description:

Bombesin/GRP receptor agonist that reduces food intake following i.p. administration.

Physical and Chemical Properties:

Batch Molecular Formula: C₅₃H₇₆N₁₄O₁₀

Batch Molecular Weight: 1069.27

Physical Appearance: White lyophilised solid

Peptide Sequence:

D-Phe-Gln-Trp-Ala-Val-Gly-His-Leu-Leu-NH₂

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 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: 76% (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.

References:

Laferrere et al (1992) Effects of bombesin, of a new bombesin agonist (BIM187) and a new antagonist (BIM189) on food intake in rats, in relation to cholecystokinin. *Eur.J.Pharmacol.* **215** 23. PMID: 1516647.

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