

## 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:** C<sub>53</sub>H<sub>76</sub>N<sub>14</sub>O<sub>10</sub>  
**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-NH<sub>2</sub>

### 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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**Description:**

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

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>53</sub>H<sub>76</sub>N<sub>14</sub>O<sub>10</sub>

Batch Molecular Weight: 1069.27

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

D-Phe-Gln-Trp-Ala-Val-Gly-His-Leu-Leu-NH<sub>2</sub>

**Storage:** Store at -20°C

**Solubility & Usage Info:**

Soluble to 2 mg/ml in water

**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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