

Certificate of Analysis

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Product Name: Bombesin

Catalog No.: 1149

Batch No.: 12

CAS Number: 31362-50-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₁H₁₁₀N₂₄O₁₈S
Batch Molecular Weight: 1619
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Glp-Gln-Arg-Leu-Gly-Asn-Gln-Trp-Ala-Val-
 Gly-His-Leu-Met-NH₂

2. ANALYTICAL DATA

HPLC: Shows 97.3% 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		
Arg	1.00	1.07	Met	1.00	1.00
Asx	1.00	0.96	Phe		
Cys			Pro		
Glx	3.00	2.89	Ser		
Gly	2.00	2.02	Thr		
His	1.00	1.03	Trp	1.00	Detected
Ile			Tyr		
Leu	2.00	1.98	Val	1.00	1.00

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: Bombesin

Catalog No.: 1149

Batch No.: 12

CAS Number: 31362-50-2

Description:

Bombesin is a neuropeptide with many biological effects including hormone release, stimulation of pancreatic enzyme secretion, inhibition of gastric emptying and modulation of gastric acid secretion.

Physical and Chemical Properties:

Batch Molecular Formula: C₇₁H₁₁₀N₂₄O₁₈S

Batch Molecular Weight: 1619

Physical Appearance: White lyophilised solid

Peptide Sequence:

Glp-Gln-Arg-Leu-Gly-Asn-Gln-Trp-Ala-Val-
Gly-His-Leu-Met-NH₂

Storage: Store 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

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:

Bathey and Wada (1991) Two distinct subtypes for mammalian bombesin-like peptides. *TINS* **14** 524. PMID: 1726343.

McCoy and Avery (1990) Bombesin: potential integrative peptide for feeding and satiety. *Peptides* **11** 595. PMID: 2199952.

Tache et al (1988) Central nervous system action of bombesin to influence gastric secretion and ulceration. *Ann.N.Y.Acad.Sci.* **547** 183. PMID: 3071217.

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