

Certificate of Analysis

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Product Name: GLP-1 (7-37)

Catalog No.: 5374

Batch No.: 11

CAS Number: 106612-94-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅₁H₂₂₈N₄₀O₄₇
Batch Molecular Weight: 3355.71
Physical Appearance: White lyophilised solid
Counter Ion: Trifluoroacetate
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Gly

2. ANALYTICAL DATA

HPLC: Shows 96.8% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	4.00	3.99	Lys	2.00	2.00
Arg	1.00	1.01	Met		
Asx	1.00	1.01	Phe	2.00	2.01
Cys			Pro		
Glx	4.00	4.04	Ser	3.00	1.91
Gly	4.00	3.99	Thr	2.00	1.61
His	1.00	1.00	Trp	1.00	0.08
Ile	1.00	0.99	Tyr	1.00	0.96
Leu	2.00	2.00	Val	2.00	2.01

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

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Product Name: GLP-1 (7-37)

Catalog No.: 5374

Batch No.: 11

CAS Number: 106612-94-6

Description:

GLP-1 (7-37) is a endogenous GLP-1 receptor ligand; bioactive and truncated form of GLP-1; insulinotropic hormone.

Physical and Chemical Properties:

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Batch Molecular Weight: 3355.71

Physical Appearance: White lyophilised solid

Peptide Sequence:

His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-
Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-
Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Gly

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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.

References:

Marchetti et al (2012) A local glucagon-like peptide 1 (GLP-1) system in human pancreatic islets. *Diabetologia* **55** 3262. PMID: 22965295.

Ban et al (2010) Glucagon-like peptide (GLP)-1(9-36)amide-mediated cytoprotection is blocked by exendin(9-39) yet does not require the known GLP-1 receptor. *Endocrinology* **151** 1520. PMID: 20172966.

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