



Certificate of Analysis

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Product Name: Glucagon (Human, Porcine) Catalog No.: 6927 Batch No.: 7

CAS Number: 16941-32-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅₃H₂₂₅N₄₃O₄₉S

Batch Molecular Weight: 3482.78

Physical Appearance: White lyophilised solid

Counter Ion: TFA

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: His-Ser-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-

Ser-Lys-Tyr-Leu-Asp-Ser-Arg-Arg-Ala-Gln-Asp-Phe-Val-Gln-Trp-Leu-Met-Asn-Thr

2. ANALYTICAL DATA

HPLC: Shows 96.4% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual A			Amino Acid Theoretical Actual		
Ala	1.00	1.02	Lys	1.00	1.01
Arg	2.00	1.98	Met	1.00	0.98
Asx	4.00	4.09	Phe	2.00	1.99
Cys			Pro		
Glx	3.00	3.04	Ser	4.00	2.78
Gly	1.00	1.02	Thr	3.00	2.50
His	1.00	0.98	Trp	1.00	0.04
lle			Tyr	2.00	1.84
Leu	2.00	2.05	Val	1.00	0.99

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

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Product Information

Print Date: Jun 11th 2025

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Product Name: Glucagon (Human, Porcine) Catalog No.: 6927 Batch No.: 7

CAS Number: 16941-32-5

Description:

Glucagon (Human, Porcine) is an endogenous glucagon receptor agonist; regulates blood glucose.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{153}H_{225}N_{43}O_{49}S$

Batch Molecular Weight: 3482.78

Physical Appearance: White lyophilised solid

Peptide Sequence:

His-Ser-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Lys-Tyr-Leu-Asp-Ser-Arg-Arg-Ala-Gln-Asp-Phe-Val-Gln-Trp-Leu-Met-Asn-Thr 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: 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 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 μ m filter to remove potential bacterial contamination whenever possible.

References:

Zhou et al (2017) A novel glucagon-like peptide-1/glucagon receptor dual agonist exhibits weight-lowering and diabetes-protective effects. Eur.J.Med.Chem. **138** 1158. PMID: 28772236.

Mayo *et al* (2003) International Union of Pharmacology. XXXV. The glucagon receptor family. Pharmacol Rev. *55* 167. PMID: 12615957. **Thomsen** *et al* (1972) The amino acid sequence of human glucagon. FEBS Lett. *21* 315. PMID: 11946536.

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