



Certificate of Analysis

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Product Name: Parathyroid hormone (1-34) (rat) Catalog No.: 6301 Batch No.: 4

CAS Number: 98614-76-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{180}H_{291}N_{55}O_{48}S_2$

Batch Molecular Weight: 4057.74

Physical Appearance: White lyophilised solid

Counter Ion: Trifluoroacetate

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Ala-Val-Ser-Glu-lle-Gln-Leu-Met-His-Asn-

Leu-Gly-Lys-His-Leu-Ala-Ser-Val-Glu-Arg-Met-Gln-Trp-Leu-Arg-Lys-Lys-Leu-Gln-Asp-

Val-His-Asn-Phe

2. ANALYTICAL DATA

HPLC: Shows 97.7% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amin				Acid Theoretical Actual	
Ala	2.00	1.98	Lys	3.00	2.96
Arg	2.00	1.95	Met	2.00	2.14
Asx	3.00	3.00	Phe	1.00	1.00
Cys			Pro		
Glx	5.00	5.06	Ser	2.00	1.31
Gly	1.00	1.02	Thr		
His	3.00	2.92	Trp	1.00	0.22
lle	1.00	0.99	Tyr		
Leu	5.00	4.97	Val	3.00	3.02

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



Product Information

Print Date: Sep 17th 2025

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Batch No.: 4

Product Name: Parathyroid hormone (1-34) (rat)

CAS Number: 98614-76-7

Description:

Parathyroid hormone (1-34) (rat) is a parathyroid hormone (PTH) receptor agonist. Increases serum PTH levels and bone mass in rate

Physical and Chemical Properties:

Batch Molecular Formula: C₁₈₀H₂₉₁N₅₅O₄₈S₂

Batch Molecular Weight: 4057.74

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ala-Val-Ser-Glu-Ile-Gln-Leu-Met-His-Asn-Leu-Gly-Lys-His-Leu-Ala-Ser-Val-Glu-Arg-Met-Gln-Trp-Leu-Arg-Lys-Lys-Leu-Gln-Asp-Val-His-Asn-Phe 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.

Catalog No.: 6301

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 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:

Lymperi et al (2017) Inhibition of osteoclast function reduces hematopoietic stem cell numbers in vivo. Blood. **117** 1540. PMID: 21131587.

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