

Certificate of Analysis

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

Catalog No.: 6301

Batch No.: 3

CAS Number: 98614-76-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈₀H₂₉₁N₅₅O₄₈S₂
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-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

2. ANALYTICAL DATA

HPLC: Shows 97.4% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	2.00	1.95	Lys	3.00	3.03
Arg	2.00	2.02	Met	2.00	2.03
Asx	3.00	3.11	Phe	1.00	1.00
Cys			Pro		
Glx	5.00	5.07	Ser	2.00	1.44
Gly	1.00	1.02	Thr		
His	3.00	3.02	Trp	1.00	0.37
Ile	1.00	0.99	Tyr		
Leu	5.00	4.81	Val	3.00	2.92

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

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Product Name: Parathyroid hormone (1-34) (rat)**Catalog No.:** 6301**Batch No.:** 3

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 rats.

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 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: 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:

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

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