

# Recombinant Human PTH protein (rFc Tag)

Catalog Number: Eg3191

## Basic Information

**Species:**  
Human**Purity:**  
>90 %, SDS-PAGE**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;0.1 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human PTH protein Ser32-Gln115 (Accession# P01270) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

5741

**Accession:**

P01270

**Predicted Molecular Mass:**

35.7 kDa

**SDS-PAGE:**

37-46 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Parathyroid hormone (PTH), also known as parathormone or parathyrin, is a critical peptide hormone that plays a vital role in calcium homeostasis within the human body. Secreted by the parathyroid glands, which are typically located behind the thyroid gland in the anterior neck, PTH is composed of 84 amino acids and is essential for maintaining serum calcium levels. The regulation of calcium is crucial not only for bone health but also for various physiological processes including muscle contraction, nerve function, and blood coagulation. Excessive secretion of PTH, often leading to hypercalcemia (elevated calcium levels) and associated symptoms such as kidney stones, osteoporosis, and neuropsychiatric disturbances. Conversely, insufficient PTH secretion can lead to hypocalcemia (low calcium levels), which may cause muscle cramps, spasms, and convulsions.

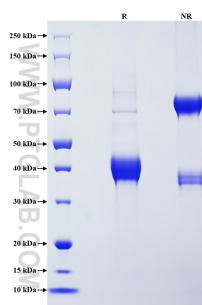
## References

1. Dawale K, Agrawal A. (2022). Cureus. 14 (10):e30251.
2. Tang PK, et al. (2021) Vet J. 275:105719.
3. Jugade SC, Bhalchim S, Karkhanis A. (2022). Contemp Clin Dent. 13 (4):395-398.

## Synonyms

parathyroid hormone, PTH, Parathormone, Parathyrin

## Selected Validation Data



Purity of Recombinant Human PTH was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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