

Recombinant Human Parathormone/PTH Protein

Catalog No.: RP01587

Sequence Information

Species **Gene ID**
Human 5741

Swiss Prot **Tags**
P01270 No tag

Synonyms

PTH, PTH1, parathyroid hormone, PTH1

Product Information

Source **Purification**
E. coli ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
9.42 kDa Approximately 15 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Parathyroid hormone is the most important endocrine regulator of calcium and phosphorus concentration in extracellular fluid. This hormone is secreted from cells of the parathyroid glands and finds its major target cells in bone and kidney. Another hormone, parathyroid hormone-related protein, binds to the same receptor as parathyroid hormone and has major effects on development. Like most other protein hormones, parathyroid hormone is synthesized as a prehormone. After intracellular processing, the mature hormone is packaged within the Golgi into secretory vesicles, the secreted into blood by exocytosis. Parathyroid hormone is secreted as a linear protein of 84 amino acids.

Basic Information

Description

Recombinant Human Parathormone/PTH Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser32–Gln115) of human Parathormone/PTH (Accession #NP_000306.1) fused with no additional amino acid.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

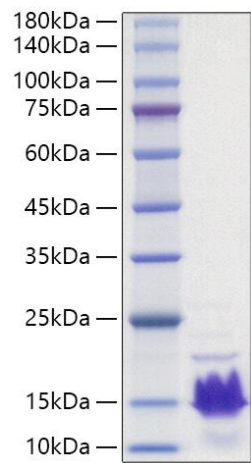
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Validation Data



Recombinant Human Parathormone/PTH Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.