

PTH

Recombinant Human Parathyroid Hormone aa7-84 Nitrogen-15

Catalog No.	CRH006A	Quantity:	10 µg
	CRH006B		50 µg
	CRH006C		1 mg

Alternate Names: PTH

Description: Recombinant Human Parathyroid Hormone is a single, non-glycosylated, ¹⁵N stable isotope labeled polypeptide chain containing 78 amino acids.

Parathyroid hormone (PTH) is a single polypeptide of 78 amino acids. It is a critical hormone in the regulation of Ca²⁺ homeostasis and secreted by the parathyroid glands, which promote release of calcium from bone to extracellular fluid by activating osteoblasts and inhibiting osteoclasts, indirectly promote increased intestinal absorption of calcium, and promote renal tubular reabsorption of calcium and increased renal excretion of phosphates. It is a major regulator of bone metabolism. Secretion of parathyroid hormone increases when the level of calcium in the extracellular fluid is low.

Gene ID: 5741

Source: *E. coli*

Molecular Weight: ~8.9 kDa

Formulation: Lyophilized from a 0.2 µm filtered, concentrated solution in PBS, pH 7.4.

Purity: >97% by SDS-PAGE and HPLC analysis

Endotoxin Level: < 0.1 EU/µg protein, as determined by LAL assay

Biological Activity: Test in progress.

Amino Acid Sequence: LMHNLGKHLN SMERVEWLRK KLQDVHNFVA LGAPLAPRDA GSQRPRKKED
NVLVESHEKS LGEADKADV N VLTAKKSQ

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. **Avoid repeated freeze/thaw cycles.**

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