

Recombinant Human PTH

CATALOG NO: 4650-50 50 µg
4650-1000 1 mg

SOURCE: *E. coli* (1-84aa)

PURITY: >98% by SDS-PAGE and HPLC analysis

MOL. WEIGHT: 9,000 Da

ENDOTOXIN LEVEL: < 0.1 ng per µg of PTH.

FORM:

The protein (1 mg/ml) was lyophilized after extensive dialyses against 1.15 mg sodium citrate, sodium chloride 7.31 mg, 0.21 mg citric acid, 0.1117 mg EDTA-Na₂, 0.2 mg Tween 80 and 50 mg Mannitol.

RECONSTITUTION:

Centrifuge the vial prior to opening. It is recommended to reconstitute the lyophilized PTH in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

STORAGE CONDITIONS:

Lyophilized Human Parathyroid Hormone (PTH) remains stable at room temperature for three weeks, but it is best stored desiccated below -18°C. Upon reconstitution Human Parathyroid Hormone (PTH) should be stored at 4°C for up to seven days. For long term storage it is recommended that a carrier protein (0.1% HSA or BSA) be added. Avoid repeated freeze-thaw cycles.

DESCRIPTION:

Parathyroid Hormone (PTH) 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 targets cells in bone and kidney. Like other protein hormones, parathyroid hormone is synthesized as a prehormone. After intracellular processing, the mature hormone is packaged within the Golgi into secretory vesicles and secreted into blood by exocytosis. Recombinant human PTH is a 9 kDa protein consisting of 84 amino acid residues.

BIOLOGICAL ACTIVITY: Recombinant human PTH is fully active when compared to standards. The activity calculated by UMR106 cells/cAMP method corresponds to a specific activity of 1 x 10⁴ U/mg.

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