

Recombinant Human Parathyroid Hormone

Cat. No. PTH-83H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human parathyroid hormone(amino acids 32-115) was overexpressed in <i>E.coli</i> and purified to apparent homogeneity by using conventional column chromatography techniques. MW = 9.55 kDa (85 aa).
Species	Human
Source	E.coli
ProteinLength	32-115 a.a.
Description	Human parathyroid hormone(hPTH) is an 84 amino acid residue peptide and one of the main regulators in maintenance of calcium homeostasis. It acts primarily on kidney and bone cells stimulating calcium back resorption or calcium mobilization, respectively. The whole mechanism is still under discussion, but low-dose hPTH triggers cyclic AMP-dependent protein kinase in some populations of bone cells bearing PTH receptors, which stimulates the proliferation of osteoblasts.
Amino Acid Sequence	MSVSEIQLMH NLGKHLNSME RVEWLRKKLQ DVHNFVALGA PLAPRDAGSQ RPRKKEDNVL VESHEKSLGE ADKADVNVLT KAKSQ.
Form	Liquid. In phosphate-buffered Saline(pH 7.4).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

PTH parathyroid hormone [[Homo sapiens](#)]

Synonyms

parathormone; parathyrin, Parathyroid hormone Precursor; PTH1; PTH; parathyroid hormone; parathyroid hormone 1

Gene ID

[5741](#)

mRNA Refseq

[NM_000315](#)

Protein Refseq

[NP_000306](#)

MIM

[168450](#)

UniProt ID

[P01270](#)

**Chromosome
Location**

11p15.3-p15.1

Pathway

Neuroactive ligand-receptor interaction

Function

hormone activity; parathyroid hormone receptor binding activity

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