

Product information

Parathyroid Hormone, 32-115 aa

Human, Recombinant, *E.coli*

Cat. No. IBPTH3001

Synonyms: PTH, PTH1

NCBI Accession No.: NP_000306

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. Human parathyroid hormone(amino acids 32-115) was overexpressed in *E. coli* and purified to apparent homogeneity by using conventional column chromatography techniques

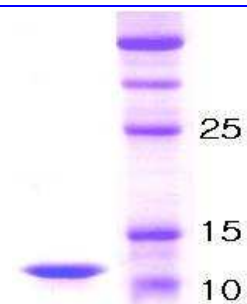
Form: Liquid. In phosphate-buffered Saline(pH 7.4) containing 2 mM EDTA

Molecular Weight: 9.55 kDa (85 aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MSVSEIQLMH NLGKHLNSME RVEWLRKKLQ DVHNFVALGA PLAPRDAGSQ RPRKKEDNVL VESHEKSLGE ADKADVNVLTKAKSQ

General references:

Hodsman AB. *et al.* (2003) *J. Clin. Endocrinol. Metab.* 88(11), 5212-20.

Wingender E., *et al.* (1989) *J. Biol. Chem.* 264(8),4367-73.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.