

**PTH, 32-115aa, Human, E.coli (Bioactivity Validated)**

**Cat.NO.: TP03591**

3th Edition

**Synonyms:**PTH, PTH1

**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

**Sequences:**

MSVSEIQLMHNLGKHLNSMERVEWLRKKLQDVHNFVALGAPLAPRDAGSQRPRKKEDNVLVESHEKSLGEADKA  
DVLNLTAKKSQ

**Purity:**> 95% by HPLC

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

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

**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.