

Recombinant Human PTH protein, 15N Stable Isotope Labeled

Cat. No. PTH-152H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTH protein (7-84 a.a., 15N stable isotope labeled) was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	78
Description	This gene encodes a member of the parathyroid family of proteins. The encoded preproprotein is proteolytically processed to generate a protein that binds to the parathyroid hormone/parathyroid hormone-related peptide receptor and regulates blood calcium and phosphate levels. Excess production of the encoded protein, known as hyperparathyroidism, can result in hypercalcemia and kidney stones. On the other hand, defective processing of the encoded protein may lead to hypoparathyroidism, which can result in hypocalcemia and numbness. Alternative splicing results in multiple transcript variants.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Molecular Mass	Approximately 8900 Da, a single non-glycosylated polypeptide chain containing 78 amino acids. 15N stable isotope labeled.
AA Sequence	LMHNLGKHLNSMERVEWLRKKLQDVHNFVALGAPLAPRDAGSQRP RKKEDNVLVE SHEKSLGEADKADVNVLTAKSQ

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Endotoxin	Less than 0.1 EU/μg of rHuPTH7-84, 15N as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.
Conjugation	15N Stable Isotope

GENE INFORMATION

Gene Name	PTH
Official Symbol	PTH
Synonyms	PTH; parathyroid hormone; parathormone; parathyrin; parathyroid hormone 1; PTH1;
Gene ID	5741
mRNA Refseq	NM_000315
Protein Refseq	NP_000306

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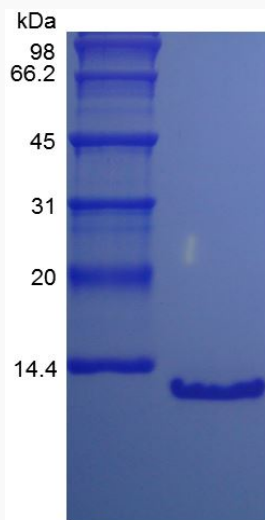
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MIM 168450

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SDS-PAGE of PTH-152H



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