

Parathyroid Hormone Recombinant Protein | PTH recombinant protein

Human Parathyroid Hormone Recombinant

CATALOG #	HOST
AAA76063	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

Parathyroid Hormone; Human Parathyroid Hormone Recombinant; pth; Parathyroid; PTH recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant PTH-84 was lyophilized from a 0.2 um filtered PB solution.
Sequence	MIPAKDMAKV MIVMLAICFL TKSDGKSVKK RSVSEIQLMH NLGKHLNSME RVEWLRKKLQ DVHNFVALGA PLAPRDAGSQ RPRKKEDNVL VESHEKSLGE ADKADVNVLTKAKSQ
Sequence Length	115
Domain	PTH
Host Note	Optimized DNA sequence encoding Human PTH mature chain was expressed in Escherichia Coli.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Molecular Weight Note	Human PTH, generated by the proteolytic removal of the signal peptide and propeptide, the molecule has a calculated molecular mass of approximately 9 kDa. Recombinant Human PTH-84 is a disulfide-linked homodimeric protein consisting of 84 amino acid residue subunits, and migrates as an approximately 9 kDa under reducing conditions in SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PTH recombinant protein	Parathyroid hormone is a circulating hormone that acts as the central regulator of calcium metabolism by directly targeting bone, kidney, and intestine. The classical concept of PTH action is that it regulates serum calcium levels by stimulating bone resorption; however, intermittent administration of PTH selectively stimulates bone formation. It is now known that PTH binds to its receptor PTH1R, and activates the G protein ? subunits. Besides PKA and PKC activation, PTH also regulates MAPKs including p42/p44 ERKs, p38, and c-Jun N-terminal kinase subtypes.
Product Categories/Family for PTH recombinant protein	Cytokines

References	• endogenous parathyroid hormone-related protein regulates the expression of PTH type 1 receptor and proliferation of vascular smooth muscle cells .<i>Mol. Endocrinol.</i>, Oct 2009; 23: 1681 - 1690. • PTH-induced internalization of apical membrane napi2a: role of actin and myosin vi .<i>Am J Physiol Cell Physiol</i>, Sep 2009; 10.1152/ajpcell.00260.2009. • <i>motoring down the microvilli. editorial focus on "PTH-induced internalization of apical membrane napi2a: role of actin and myosin vi"</i> .<i>Am J Physiol Cell Physiol</i>, Sep 2009; 10.1152/ajpcell.00423.2009. • <i>simultaneous control of PTH and caxp is sustained over three years of treatment with cinacalcet hcl</i> .<i>Clin. J. Am. Soc. Nephrol.</i>, Sep 2009; 4: 1465 - 1476. • <i>human PTH gene regulation in vivo using transgenic mice</i> .<i>Am J Physiol Renal Physiol</i>, Sep 2009; 297: F713 - F719.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506267
NCBI GeneID	5741
NCBI Accession #	NP_000306.1
NCBI GenBank Nucleotide #	NM_000315.2
UniProt Accession #	P01270; Q4VB48; Q9UD38
Molecular Weight	12,861 Da
NCBI Official Full Name	parathyroid hormone preproprotein
UniProt Protein Name	Parathyroid hormone
UniProt Gene Name	PTH
UniProt Synonym Gene Names	PTH
UniProt Entry Name	PTHY_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pth-recombinant-protein-e-coli/76063>