

Recombinant Human PTHLH protein

Cat. No. PTHLH-664H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTHLH protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	86
Description	The protein encoded by this gene is a member of the parathyroid hormone family. This hormone, via its receptor, PTHR1, regulates endochondral bone development and epithelial-mesenchymal interactions during the formation of the mammary glands and teeth. It is responsible for most cases of humoral hypercalcemia of malignancy, and mutations in this gene are associated with brachydactyly type E2 (BDE2). Alternatively spliced transcript variants have been found for this gene. There is also evidence for alternative translation initiation from non-AUG (CUG and GUG) start sites, downstream of the initiator AUG codon, resulting in nuclear forms of this hormone.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 10 mM PB, pH 6.0, 300 mM NaCl.
Molecular Mass	Approximately 9.9 kDa, a single non-glycosylated polypeptide chain containing 86 amino acids.
AA Sequence	AVSEHQLLDKKGKSIQDLRRRFFLHHLIAEIHTAEIRATSEVSPNSKPSPNTKNHPVR

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	FGSDDEGRYLTQETNKVETYKEQPLKTP
Endotoxin	Less than 0.1 EU/g of rHuPTHrP 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.

GENE INFORMATION

Gene Name	PTHLH
Official Symbol	PTHLH
Synonyms	PTHLH; parathyroid hormone-like hormone; parathyroid hormone-related protein; HHM; osteostatin; PLP; PTHR; PTHRP; PTH-rP; PTH-related protein; parathyroid hormone-like related protein; BDE2; MGC14611;
Gene ID	5744
mRNA Refseq	NM_002820

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Protein Refseq	NP_002811
MIM	168470
UniProt ID	P12272

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