

Recombinant Human PTHLH, His-tagged

Cat. No. PTHLH-112H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTHLH(Ala37-Arg175) fused with 6His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	37-175 a.a.
Description	Parathyroid Hormone-Related protein (PTHrP) is a member of the parathyroid hormone family. PTHrP is known as a potent inhibitor of chondrocyte maturation. PTHrP is a critical regulator of cellular and organ growth, development, migration, differentiation and survival and of epithelial calcium ion transport. PTHrP also regulates epithelial-mesenchymal interactions during the formation of the mammary glands. During endochondral bone development, PTHrP plays a major role in suppressing the onset of hypertrophic differentiation. Defects in PTHrP are the cause of Brachydactyly Type E2.
Form	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4
AA Sequence	MAVSEHQLLHDKGKSIQDLRRRFFLHHLIAEIHTAEIRATSEVSPNSKPSNTKNHPV RFGSDDE GRYLTQETNKVETYKEQPLKTPGKKKKGKPGKRKEQEKKKRRTSAWL DSGVTGSGLEGDHLSDT STTSLELDSRLEHHHHHH
Endotoxin	Less than 0.1 ng/g (1 IEU/g).

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Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	PTHLH parathyroid hormone-like hormone [Homo sapiens]
Official Symbol	PTHLH
Synonyms	HHM; PLP; BDE2; PTHR; PTHRP; parathyroid hormone-related protein; PTH-Rp; PTH-related protein; osteostatin; parathyroid hormone-like hormone preproprotein; parathyroid hormone-like related protein
Gene ID	5744
mRNA Refseq	NM_002820
Protein Refseq	NP_002811
MIM	168470
UniProt ID	P12272

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Chromosome Location	12p12.1-p11.2
Pathway	Class B/2 (Secretin family receptors), organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem
Function	hormone activity; peptide hormone receptor binding

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