

Recombinant Human Parathyroid Hormone-like Hormone

Cat. No. PTHLH-111H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTHrP produced in <i>E. Coli</i> is a 9.8 kDa protein consisting of 86 amino acid residues.
Species	Human
Source	E.coli
Description	Human Parathyroid Hormone-like related Protein (PTHrP) -is a member of the Parathyroid hormone family that is expressed in the mammary gland. It is known as a potent inhibitor of chondrocyte maturation. PTHrP is expressed by periarticular perichondrial cells and exerts its biological activity on PP-R expressing cells. During endochondral bone development PTHrP plays a major role in suppressing the onset of hypertrophic differentiation. It is also responsible for most cases of humoral hypercalcemia of malignancy.
Supplied	The sterile filtered solution is lyophilized from 0.5x PBS, pH 7.1.
Reconstitution	The lyophilized powder should be reconstituted in sterile DI water to a max concentration of 0.1-1mg/ml. Allow to set at least 30 minutes at 4°C, tighten cap and rotate to reconstitute any material on sides of vial. If desired, you can centrifuge at 1000 rpm for 1 minute to concentrate volume in bottom of vial. This solution can be diluted into water or other buffered solutions or stored at 4°C for up to 1 week or at – 20°C for future use.

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Note	If this material is not to be used for coating or labeling(or other applications requiring carrier free material), the addition of 0.1% BSA to dilution buffers or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial.
Endotoxin	less than 0.1ng per ug.
Reactivity	not determined
Purity	>98% by SDS-Page and HPLC analysis.
Storage	The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated at -20°C. Reconstituted material should be stored in working aliquots at -20°C. Please avoid freeze-thaw cycles.

GENE INFORMATION

Gene Name	PTHLH parathyroid hormone-like hormone [Homo sapiens]
Synonyms	PTHLH; parathyroid hormone-like hormone; HHM; PLP; PTHR; PTHRP; MGC14611; osteostatin; PTH-related protein; parathyroid-like protein; parathyroid hormone-like protein; humoral hypercalcemia of malignancy; parathyroid hormone-related protein; parathyroid hormone-like related protein; PTH-rP; PTHrP; parathyroid hormone-like hormone
Gene ID	5744
mRNA Refseq	NM_002820
Protein Refseq	NP_002811
MIM	168470

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UniProt ID	P12272
Chromosome Location	12p12.1-p11.2
Function	calcium ion binding; hormone activity

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