

Growth Factor Data Sheet

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Human parathyroid hormone-like hormone (PTH LH) is a hormone that is expressed in mammary glands, as well as cancer cells. Alternative splicing results in different length isoforms of PTH LH. It is involved in a diverse array of processes. PTH LH plays a key role during endochondral ossification by regulating chondrocyte proliferation, differentiation, and apoptosis. It also regulates epithelial-mesenchymal interactions during development of mammary glands and teeth and interacts with dermal fibroblasts to modulate routine skin cell growth and maintenance. PTH LH is a ligand for the PTH1 receptor that is also affected by PTH. This particular product has been labeled with the stable ^{15}N isotope to help track its activity.

Catalog Number	3110-07N
Product Name	PTH LH, ^{15}N, Human Recombinant Human Parathyroid Hormone-Like Hormone (PTH LH), ^{15}N Stable Isotope Labeled Parathyroid Hormone-Related Protein (PTHrP, PTHR) Osteostatin
Source	<i>Escherichia coli</i>
MW	~10.0 kDa (86 amino acids)
Sequence	AVSEHQLLHD KGKSIQDLRR RFLHHLIAE IHTAEIRATS EVSPNSKPSP NTKNHPVRFG SDDEGRYLTQ ETNKVETYKE QPLKTP
Accession Number	P12272
Purity	>97% by SDS-PAGE and HPLC analyses
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.