

# Growth Factor Data Sheet

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GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Human Parathyroid Hormone (PTH) is a hormone expressed and secreted as preproPTH by chief cells of the parathyroid glands when extracellular calcium levels are low. PTH is coexpressed with furin, the enzyme believed to be responsible for processing proPTH to PTH. PTH is secreted as a C-terminal fragment (7-84) when extracellular calcium levels are high, offsetting the effects of PTH. PTH (7-84) acts as an antagonist for PTH1R, as well as a possible carboxy-terminus interacting PTH receptor. PTH and truncated PTH fragments play a major role in bone metabolism and calcium homeostasis, as well as renal excretion. This particular product has been labeled with the stable <sup>15</sup>N isotope to help track its activity.

<b>Catalog Number</b>	<b>3110-12N</b>
<b>Product Name</b>	<b>PTH (7-84), 15N, Human</b> Recombinant Human Parathyroid Hormone (PHT), <sup>15</sup> N Stable Isotope Labeled Parathyrin Parathormone Parathyroid Hormone 1 (PTH1)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~8.9 kDa (78 amino acids)
<b>Sequence</b>	LMHNLGKHLN SMERVEWLRK KLQDVHNFVA LGAPLAPRDA GSQRPRKKED NVLVESHEKS LGEADKADV N VLTAKASQ
<b>Accession Number</b>	<a href="#">P01270</a>
<b>Purity</b>	>98% by SDS-PAGE and HPLC analyses
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	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.