

# Growth Factor Data Sheet

---

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. It is coexpressed with furin, the enzyme believed to be responsible for processing proPTH to PTH. PTH is secreted as a midregional peptide fragment (7-34) when extracellular calcium levels are high, offsetting the effects of PTH. PTH plays a major role in bone metabolism and calcium homeostasis, as well as renal excretion. PTH (7-34) is a PTH1R antagonist capable of stimulating proliferation and differentiation of hair follicles and epidermis while promoting cell survival by activation of Akt.

<b>Catalog Number</b>	<b>3110-04</b>
<b>Product Name</b>	<b>PTH (7-34), Human</b> Recombinant Human Parathyroid Hormone (PHT) Parathyrin Parathormone Parathyroid Hormone 1 (PTH1)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~3.4 kDa (28 amino acids)
<b>Sequence</b>	LMHNLGKHLN SMERVEWLRK KLQDVHNF
<b>Accession Number</b>	<a href="#">P01270</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The specific activity is determined by UMR106 cell/cAMP method, corresponding to a specific activity of $> 1.0 \times 10^4$ IU/mg.
<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.