

PTH Protein, Human

Cat. No.:	HY-P7112
Synonyms:	rHuPTH; Parathormone; Parathyrin
Species:	Human
Source:	E. coli
Accession:	P01270 (S32-Q115)
Gene ID:	5741
Molecular Weight:	Approximately 9,000 Da

PROPERTIES

AA Sequence	SVSEIQLMHN LGKHLNSMER VEWLRKKLQD VHNFVALGAP LAPRDAGSQR PRKKEDNVLV ESHEKSLGEA DKADVNVLTk AKSQ
Biological Activity	The ED ₅₀ is <0.1 µg/mL as measured by UMR106 cell/cAMP method, corresponding to a specific activity of >1.0 × 10 ⁴ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 1.15 mg sodium citrate, sodium chloride 7.31 mg, 0.21 mg citric acid, 0.1117 mg EDTA-Na ₂ , 0.2 mg Tween 80 and 50 mg Mannitol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Recombinant Human Parathyroid Hormone, 1-84a.a. is a full-length replica of the endogenous Parathyroid hormone molecule, which consists of an amino (N)-terminal structure (first 34 amino acids) and a carboxyl (C)-terminal structure (last 50 amino acids). Full-length recombinant human parathyroid hormone [rhPTH (1-84); Natpara] is approved in the USA as an adjunct to calcium and vitamin D therapy for control of hypocalcaemia in patients with hypoparathyroidism. Parathyroid Hormone regulates calcium and phosphorus levels by acting on the bone, kidneys and intestines. In the bone, Parathyroid hormone mobilizes calcium and phosphorus into the circulation by stimulating bone resorption. Parathyroid hormone</p>
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stimulates osteoblasts to increase the expression of receptor activator of nuclear factor j-B ligand (RANKL)^[1].

REFERENCES

[1]. Kim ES, et al. Recombinant Human Parathyroid Hormone (1-84): A Review in Hypoparathyroidism. *Drugs*. 2015 Jul;75(11):1293-303.

Caution: Product has not been fully validated for medical applications. For research use only.

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