

Parathyroid Hormone (1-34) Human Recombinant

Item Number	rAP-2595
Synonyms	Parathyrin, PTH, Parathormone.
Description	Parathyroid Hormone Human Recombinant (C181H290N55O51S2) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 34 amino acids and having a molecular mass of 4117.8 Dalton. The PTH is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01270
Amino Acid Sequence	Ser-Val-Ser-Glu-Ile-Gln-Leu-Met-His-Asn-Leu-Gly-Lys-His-Leu-Asn-Ser-Met-Glu-Arg-Val-Glu-Trp-Leu-Arg-Lys-Lys-Leu-Gln-Asp-Val-His-Asn-Phe.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Parathyrin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution PTH should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The protein (1 mg/ml) was lyophilized after extensive dialyses against 1.15 mg sodium citrate, sodium chloride 7.31 mg, 0.21 mg citric acid, 0.1117 EDTA-Na2, 0.2 mg Tween 80 and 50 mg Mannitol. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Parathormone in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The activity calculated by UMR106 cell/cAMP method corresponding to a specific activity of 10,000 Units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**