



## PTH 1-84/Parathyroid hormone/Parathormone

E21-010

**Catalog Number:**E21-010

**Amount:**10ug

**Altername:**Parathyroid Hormone; PTH; Parathormone; Parathyrin

**Storage/Stability:**Lyophilized protein should be stored at  $< -20^{\circ}\text{C}$ , though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at  $4-7^{\circ}\text{C}$  for 2-7 days.Aliquots of reconstituted samples are stable at  $< -20^{\circ}\text{C}$  for 3 months.

**Background:**Parathyroid hormone is the most important endocrine regulator of calcium and phosphorus concentration in extracellular fluid. This hormone is secreted from cells of the parathyroid glands and finds its major target cells in bone and kidney. Another hormone, parathyroid hormone-related protein, binds to the same receptor as parathyroid hormone and has major effects on development. Like most other protein hormones, parathyroid hormone is synthesized as a preprohormone. After intracellular processing, the mature hormone is packaged within the Golgi into secretory vesicles, the secreted into blood by exocytosis. Parathyroid hormone is secreted as a linear protein of 84 amino acids.

**Species:**Human

**Reconstitution:**Always centrifuge tubes before opening. Do not mix by vortex or pipetting.It is not recommended to reconstitute to a concentration less than  $100\text{ }\mu\text{g/ml}$ .Dissolve the lyophilized protein in ddH<sub>2</sub>O.Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin:**Less than  $0.1\text{ ng}/\mu\text{g}$  ( $1\text{ IEU}/\mu\text{g}$ ) as determined by LAL test.

**Purity:**Greater than 95% as determined by reducing SDS-PAGE.

**Description:**Recombinant Human Parathyroid Hormone is produced by our E.coli expression system and the target gene encoding Ser32-Gln115 is expressed.

**Product State:**Lyophilized

**Ship Description:**The product is shipped at ambient temperature.

**Formulation:**Lyophilized from a  $0.2\text{ }\mu\text{m}$  filtered solution of 10mM HAc-NaAc, 150mM NaCl, 5% Mannitol, pH 4.0.

**Expression system:**E.coli

**For Research Use Only**

