



# Recombinant Protein Technical Manual

## Recombinant Human Parathyroid Hormone/PTH Protein (1-84) RPES1224

### Product Data:

**Product SKU:** RPES1224

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P01270

### Protein Information:

**Molecular Mass:** 9.0 kDa

**AP Molecular Mass:** 14 kDa

**Tag:**

**Bio-activity:**

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

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 10mM HAc-NaAc, 150mM NaCl, 5% Mannitol, pH 4.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Parathyroid Hormone; PTH; Parathormone; Parathyrin;PTH1

## Immunogen Information:

**Sequence:** Ser32-Gln115

## 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.