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Datasheet for ABIN7319505 PTH Protein (His tag)

Overview

Quantity:	50 µg
Target:	PTH
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTH protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Parathyroid Hormone/PTH Protein (His Tag)
Sequence:	Ser32-Gln115
Characteristics:	Recombinant Human Parathyroid Hormone is produced by our Mammalian expression system and the target gene encoding Ser32-Gln115 is expressed with a 8His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PTH
Alternative Name:	Parathyroid Hormone/PTH (PTH Products)
Target Type:	Hormone
Background:	Background: Parathyroid hormone (PTH) is a critical hormone in the regulation of Ca++

Target Details

homeostasis. 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 prehormone. After intracellular processing, the mature hormone is packaged with in the Golgi into secretory vesicles, the secreted into blood by exocytosis. In renal epithelium, PTH promotes conversion of Vitamin D to its active form, lowers Ca^{++} excretion and increases phosphate excretion. PTH also increases hematopoietic stem cell proliferation and mobilization and induces arterial vasodilation by regulating Ca^{++} influx in PTH1R-expressing arterial smooth muscle.

Synonym: Parathyroid Hormone, PTH, Parathormone, Parathyrin, PTH1

Molecular Weight: 10.5 kDa

UniProt: [P01270](#)

Pathways: [cAMP Metabolic Process](#), [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Buffer: Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, 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.