

Rev07
Update: Jan,19,2024

DATASHEET

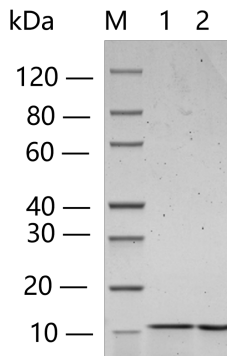
PTH (1-84aa), Human

Cat. No.: Z02021

Product Introduction

Species	Human
Protein Construction	PTH (Ser32-Gln115) Accession # P01270
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 1 EU/ μ g of protein by LAL method
Expression System	E. coli
Theoretical Molecular Weight	~9.4 kDa
Apparent Molecular Weight	~14 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 10mM HAc-NaAc, 150mM NaCl, 5% Mannitol, pH 4.0.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in distilled water up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Examples



Lane 1: 2 μ g of PTH (1-84aa), Human, non-reducing (NR)
Lane 2: 2 μ g of PTH (1-84aa), Human, reducing (R)
> 95% as analyzed by SDS-PAGE

Background

Target Background : Parathyroid Hormone (PTH) is the most important endocrine regulator of calcium and phosphorus concentration in extracellular fluid. Parathyroid Hormone (PTH) is secreted from cells of the parathyroid glands and finds Parathyroid Hormone's major target cells in bone and kidney. Like most other protein hormones, Parathyroid Hormone (PTH) is synthesized as a prehormone. After intracellular processing, the mature hormone is packaged within the Golgi into secretory vesicles, the secreted into blood by exocytosis. Parathyroid Hormone (PTH) is secreted as a linear protein of 84 amino acids. Recombinant Human Parathyroid Hormone (PTH) produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 84 amino acids.

Synonyms : Parathyroid Hormone

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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