

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

Catalog Number: PKSH032854

Note: Centrifuge before opening to ensure complete recovery of vial contents.

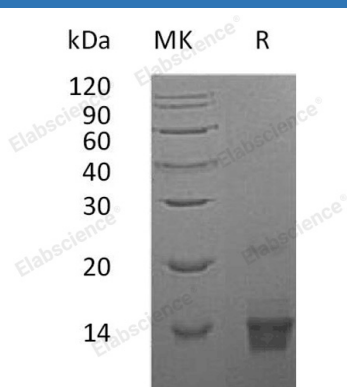
Description

Species	Human
Source	E.coli-derived Human PTH protein Ser32-Gln115
Calculated MW	9.4 kDa
Observed MW	14 kDa
Accession	P01270
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	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.
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. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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.

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