

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

Catalog No. PKSH032854

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

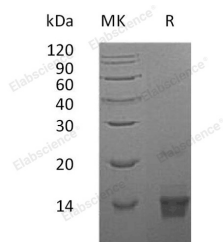
Description

Synonyms	Parathyroid Hormone;PTH;Parathormone;Parathyrin;PTH1
Species	Human
Expression Host	E.coli
Sequence	Ser32-Gln115
Accession	P01270
Calculated Molecular Weight	9.4 kDa
Observed molecular weight	14 kDa
Tag	None
Bioactivity	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

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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 within the Golgi into secretory vesicles; the secreted into blood by exocytosis. Parathyroid hormone is secreted as a linear protein of 84 amino acids.