

PTH Protein, Human, Recombinant (hFc)

General Information

Synonyms:	PTH;parathyroid hormone;PTH1
Protein Construction:	Ser32-Gln115
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01270
Molecular Weight:	34.95 kDa (Predicted); 40-50 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Activity testing is not tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	Less than 1EU per µg by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

Parathyroid hormone (PTH) is an 84-amino-acid peptide hormone that is secreted by the parathyroid gland. It has different administration modes in bone tissue through which it promotes bone formation (intermittent administration) and bone resorption (continuous administration) and has great potential for application in bone defect repair.

Reference

- Bedi B, et al. (2012) Silencing of parathyroid hormone (PTH) receptor 1 in T cells blunts the bone anabolic activity of PTH. Proc Natl Acad Sci U S A. 109(12): 725-33.
- Hasegawa T, et al. (2012) Parathyroid hormone as a Bone anabolic agent. Biological function of bone cells on the PTH-driven anabolic effect. Clin Calcium. 22(3): 373-9.
- Ito M. Parathyroid hormone as a Bone anabolic agent. Effect of PTH on bone structural properties. Clin Calcium. 22(3): 335-41.

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