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Recombinant Human PTH1R Protein (Gly49, His Tag)

Catalog No. PKSH032853

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

Description

Synonyms Parathyroid hormone/parathyroid hormone-related peptide receptor;PTH/PTHrP

type I receptor;PTH/PTHr receptor;Parathyroid hormone 1 receptor;PTH1

receptor;PTH1R

Species Human

HEK293 Cells **Expression Host** Tyr23-Met 189 Sequence Q0VGD7 Accession Calculated Molecular Weight 20.2 kDa Observed molecular weight 30 kDa C-His Tag

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.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to **Storage**

-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 PBS, pH 7.4.

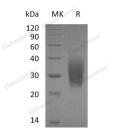
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com

Elabscience Bionovation Inc.



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Parathyroid hormone 1 receptor(PTH1R) is a multi-pass membrane protein. The protein is expressed in high levels in bone and kidney and regulates calcium ionhomeostasis through activation of adenylate cyclase and phospholipase C. In bone, it is expressed on the surface of osteoblasts. When the receptor is activated through PTH binding, osteoblasts express RANKL (Receptor Activator of Nuclear Factor kB Ligand), which binds to RANK (Receptor Activator of Nuclear Factor kB) on osteoclasts. This turns on osteoclasts to ultimately increase the resorption rate.

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