

Recombinant Human PTH1R Protein (Gly49, His Tag)



Catalog Number: PKSH032853

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

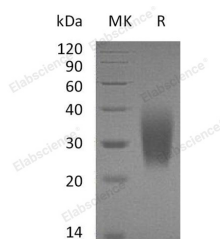
Description

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

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 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

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 ion homeostasis 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 κB Ligand), which binds to RANK (Receptor Activator of Nuclear Factor κB) on osteoclasts. This turns on osteoclasts to ultimately increase the resorption rate.

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