

Recombinant Human PTH1R protein, His-tagged

Cat. No. PTH1R-8043H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTH1R aa. (Ala28~Gly188) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ala28~Gly188
Description	The protein encoded by this gene is a member of the G-protein coupled receptor family 2. This protein is a receptor for parathyroid hormone (PTH) and for parathyroid hormone-like hormone (PTHrP). The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and also a phosphatidylinositol-calcium second messenger system. Defects in this receptor are known to be the cause of Jansen's metaphyseal chondrodysplasia (JMC), chondrodysplasia Blomstrand type (BOCD), as well as enchondromatosis. Two transcript variants encoding the same protein have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	22kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>98%

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Characteristic	The isoelectric point is 6.6.
Applications	Positive Control; Immunogen; SDS-PAGE; WB
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PTH1R parathyroid hormone 1 receptor [Homo sapiens (human)]
Official Symbol	PTH1R
Synonyms	PFE; PTHR; PTHR1; PTH/PTHr receptor; PTH/PTHrP type I receptor; PTH1 receptor; parathyroid hormone receptor 1; parathyroid hormone/parathyroid hormone-related protein receptor; seven transmembrane helix receptor; parathyroid

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hormone/parathyroid hormone-related peptide receptor

Gene ID	5745
mRNA Refseq	NM_000316.2
Protein Refseq	NP_000307.1
UniProt ID	Q03431

SDS-PAGE

