

Recombinant Full Length Human PTH1R Protein, His-tagged

Cat. No. PTH1R-420H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTH1R protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	593
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	Lyophilized
Molecular Mass	67.5 kDa
AA Sequence	MGTARIAPGLALLLCCPVLSSAYALVDADDVMTKEEQIFLLHRAQAQCEKRLKEVLQ RPASIMESDKGWTSASTSGKPRKDKASGKLYPESEEDKEAPTGSRYRGRPCLEPW DHILCWPLGAPGEVVAVPCPDYIYDFNHKGHAYRRCDRNGSWELVPGHNRTWANY SECVKFLTNETREREVFDRLGMIYTVGYSVSLASLTVAVLILAYFRRLHCTRNYIHMH

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LFLSFMLRAVSIFVKDAVLYSGATLDEAERLTEEELRAIAQAPPPATAAAGYAGCRV
 AVTFFLYFLATNYYWILVEGLYLHSLIFMAFFSEKKYLWGFTVFGWGLPAVFVAVWV
 SVRATLANTGCWDLSSGNKKWIIQVPILASIVLNFILFINIVRVLATKLRETNAGRCDTR
 QQYRKLLKSTLVLMPFLGVHYIVFMATPYTEVSGTLWQVQMHYEMLFNSFQGFFVAI
 IYCFCNAGEVQAEIKKSWSRWTLALDFKRKARSGSSSYSYGPMVSHTSVTNVGPVRVG
 LGLPLSPRLLPTATTNGHPQLPGHAKPGTPALETLETTTPAMAAPKDDGFLNGSCS
 GLDEEASGPERPPALLQEEWETVM

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term).
 After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18
 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted
 stock further in other aqueous solutions if needed. Please review COA for lot-specific
 instructions. Final measurements should be determined by the end-user for optimal
 performance.

GENE INFORMATION

Gene Name PTH1R parathyroid hormone 1 receptor [Homo sapiens (human)]

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Official Symbol	PTH1R
Synonyms	PTH1R; parathyroid hormone 1 receptor; parathyroid hormone receptor 1 , PTHR, PTHR1; parathyroid hormone/parathyroid hormone-related peptide receptor; PTH1 receptor; PTH/PTHr receptor; PTH/PTHrP type I receptor; parathyroid hormone receptor 1; seven transmembrane helix receptor; parathyroid hormone/parathyroid hormone-related protein receptor; PFE; PTHR; PTHR1; MGC138426; MGC138452;
Gene ID	5745
mRNA Refseq	NM_000316
Protein Refseq	NP_000307
MIM	168468
UniProt ID	Q03431

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