

Recombinant Human Bone Morphogenetic Protein Receptor, Type II, GST-tagged

Cat. No. BMPR2-993H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BMPR2 (174-end) was expressed using baculovirus in Sf9 insect cells using an N-terminal His tag.
Species	Human
Source	Sf9 Cells
ProteinLength	174-end a.a.
Description	BMPR2 is a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs that are involved in endochondral bone formation and embryogenesis. The loss of interaction and lack of phosphorylation of TCTEL1 by BMPR2 may contribute to the pathogenesis of primary pulmonary hypertension (PPH) and BMPR2 also plays an essential role in human T-cell differentiation.
Applications	Kinase Assay; Western Blot
Molecular Weight	115 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.

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Specific Activity	14 nmol/min/mg
Purity	> 75 %
Concentration	0.1 ug/ul
Sequences	174-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	ALK1 signaling events; ALK2 signaling events; BMP receptor signaling; BMP signalling and regulation; Cytokine-cytokine receptor interaction; Heart Development; Id Signaling Pathway; TGF-beta signaling pathway; Signaling by BMP

GENE INFORMATION

Gene Name	BMPR2 bone morphogenetic protein receptor, type II (serine/threonine kinase) [Homo sapiens]
Official Symbol	BMPR2
Synonyms	BMPR2; bone morphogenetic protein receptor, type II (serine/threonine kinase); BMR2; PPH1; BMPR3; BRK-3; T-ALK; BMPR-II; FLJ41585; FLJ76945; bone morphogenetic protein receptor type-2; BMPR-2; BMP type-2 receptor; BMP type II receptor; type II activin receptor-like kinase; bone morphogenetic protein receptor type II; type II receptor for bone morphogenetic protein-4; OTTHUMP00000164984; OTTHUMP00000164985
Gene ID	659

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mRNA Refseq	NM_001204
Protein Refseq	NP_001195
MIM	600799
UniProt ID	Q13873
Chromosome Location	2q33-q34
Function	ATP binding; activin receptor activity, type II; metal ion binding; nucleotide binding; protein binding; receptor activity; transforming growth factor beta receptor activity; transmembrane receptor protein serine/threonine kinase activity

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