

## Active Recombinant Human BMPR2, His-tagged

Cat. No. BMPR2-1367H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human BMPR2 (174-end) was expressed using baculovirus in Sf9 insect cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	174 aa-end
<b>Description</b>	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.
<b>Form</b>	Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
<b>Bio-activity</b>	14 nmol/min/mg
<b>Molecular Mass</b>	~115 kDa
<b>Purity</b>	>75%

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<b>Applications</b>	Kinase Assay, Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	BMPR2 bone morphogenetic protein receptor, type II (serine/threonine kinase) [ Homo sapiens ]
<b>Official Symbol</b>	BMPR2
<b>Synonyms</b>	BMPR2; bone morphogenetic protein receptor, type II (serine/threonine kinase); PPH1, primary pulmonary hypertension 1; bone morphogenetic protein receptor type-2; BMPR II; BMPR3; BRK 3; T ALK; 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; BMR2; PPH1; BRK-3; T-ALK; BMPR-II; FLJ41585; FLJ76945;
<b>Gene ID</b>	659
<b>mRNA Refseq</b>	NM_001204
<b>Protein Refseq</b>	NP_001195
<b>MIM</b>	600799
<b>UniProt ID</b>	Q13873

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<b>Chromosome Location</b>	2q33-q34
<b>Pathway</b>	ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; BMP signalling and regulation, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Heart Development, organism-specific biosystem;
<b>Function</b>	ATP binding; activin receptor activity, type II; growth factor binding; metal ion binding; nucleotide binding; protein binding; receptor activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity;

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