

## Recombinant Human BMPR1B, His-tagged

Cat. No. BMPR1B-84H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human BMPR1B was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	BMPR1B also known as bone morphogenetic protein receptor type-1B isoform b. BMPR1B is on ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. It's receptor for BMP7/OP-1 and GDF5.
<b>Form</b>	Liquid. In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT, 0.1mM PMSF
<b>Molecular Mass</b>	15.1kDa (136aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSKKEDGES TAPTPRPKVL RCKCHHHHCPE DSVNNICSTD GYCFTMIEED DSGLPVVTSG CLGLEGSDFQ CRDTPIPHQR RSIECCTERN ECNKDLHPTL PPLKNRDFVD GPIHHR
<b>Purity</b>	>80% by SDS - PAGE
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store

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at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [BMPR1B bone morphogenetic protein receptor, type IB \[ Homo sapiens \]](#)

**Official Symbol** BMPR1B

**Synonyms** BMPR1B; bone morphogenetic protein receptor, type IB; bone morphogenetic protein receptor type-1B; ALK6; CDw293; BMPR-1B; BMP type-1B receptor; activin receptor-like kinase 6; serine/threonine receptor kinase; ALK-6;

**Gene ID** [658](#)

**mRNA Refseq** [NM\\_001203](#)

**Protein Refseq** [NP\\_001194](#)

**MIM** [603248](#)

**UniProt ID** [O00238](#)

**Chromosome Location** 4q23-q24

**Pathway** Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Ovarian Infertility Genes, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; TGF-beta signaling pathway,

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organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;

**Function**

ATP binding; SMAD binding; activin receptor activity, type II; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity; transmembrane receptor protein serine/threonine kinase activity; transmembrane receptor protein serine/threonine kinase activity;

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