

Recombinant Human BMPR1B, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human BMPR1B was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT, 0.1mM PMSF
Molecular Mass	15.1kDa (136aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSKKEDGES TAPTPRPKVL RCKCHHHHCPE DSVNNICSTD GYCFTMIEED DSGLPVVTSG CLGLEGSDFQ CRDTPIPHQR RSIECCTERN ECNKDLHPTL PPLKNRDFVD GPIHHR
Purity	>80% by SDS - PAGE
Storage	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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