

## Recombinant Human BMPR1B, His-tagged

Cat. No. BMPR1B-10257H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BMPR1B protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	159-502a.a.
<b>Description</b>	<p>This gene encodes a member of the bone morphogenetic protein (BMP) receptor family of transmembrane serine/threonine kinases. The ligands of this receptor are BMPs, which are members of the TGF-beta superfamily. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. Mutations in this gene have been associated with primary pulmonary hypertension. Several transcript variants encoding two different isoforms have been found for this gene.</p>
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM

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Imidazole and 0.7% Sarcosyl, 15%glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BMPR1B bone morphogenetic protein receptor, type IB [ Homo sapiens ]</a>
<b>Official Symbol</b>	BMPR1B
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">658</a>
<b>mRNA Refseq</b>	<a href="#">NM_001203</a>
<b>Protein Refseq</b>	<a href="#">NP_001194</a>
<b>MIM</b>	<a href="#">603248</a>
<b>UniProt ID</b>	<a href="#">O00238</a>
<b>Chromosome Location</b>	4q23-q24
<b>Pathway</b>	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, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;

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**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 g

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