

## Recombinant Full Length Human BMPR1B Protein

**Cat. No.** BMPR1B-3750HF    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human BMPR1B full-length ORF (NP_001194.1) recombinant protein without tag.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	233 amino acids
<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.</p>
<b>Form</b>	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
<b>Molecular Mass</b>	56.9 kDa
<b>AA Sequence</b>	MLLRSAGKLNVGTKKEDGESTAPTPRPKVL RCKCHHHCPEDSVNNICSTDGYCFTM IEEDDSGLPVVVTSGCLGLEGSDFQCRDTPIPHQRRSIECCTERNECNKDLHPTLPPL

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KNRDFVDGPIHHRALLISVTVCSLLLVLILFCYFRYKRQETRPRYSIGLEQDETYIPPG  
 ESLRDLEQSQSSGSGSGLPLLQRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVA  
 VKVFFTTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSL  
 YDYLKSTTLDAKSMKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGT  
 CCIADLGLAVKFISDTNEVDIPPNTRVGTKRYMPPEVLDES LNRNHFQSYIMADMYSF  
 GLILWEVARRCVSGGIVEEYQLPYHDLVPSDPSYEDMREIVCIKKLRPSFPNRWSSD  
 ECLRQMGKLMTECWAHNPASRLTALRVKKTAKMSESQDIKL

**Notes** Best use within three months from the date of receipt of this protein.

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

## 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](#)

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UniProt ID

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