

Recombinant Full Length Human BMPR1B Protein

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

SPECIFICATION

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

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KNRDFVDGPIHHRALLISVTVCSLLLVLILFCYFRYKRQETRPRYSIGLEQDETYIPPG
ESLRDLIEQSQSSSGSGSGLPLLQRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVA
VKVFFTTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSL
YDYLKSTTLDAKSMKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGT
CCIADLGLAVKFISDTNEVDIPPNTRVGTKRYMPPEVLDESINRNHFQSYIMADMYSF
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

O00238

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