

Active Recombinant Human BMPR1B Protein

Cat. No. BMPR1B-282H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BMPR1B full-length ORF (NP_001194.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
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.
Bio-activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip 3000. Substrate: Topolla peptide. ATP: 200 uM.
Molecular Mass	56.9 kDa

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AA Sequence

MLLRSAGKLNVGTKKEDGESTAPTPRPKVLRCCKHHHCPEDSVNNICSTDGYCFTM
 IEEDDSGLPVVTSGCLGLEGSDFQCRDTPIPHQRRSIECCTERNECNKDLHPTLPPL
 KNRDFVDGPIHHRALLISVTVCSLLLVLILFCYFRYKRQETRPRYSIGLEQDETYIPPG
 ESLRDLIEQSQSSSGSGSGLPLLQRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVA
 VKVFFTTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSL
 YDYLKSTTLDAKSMLKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGT
 CCIADLGLAVKFISDTNEVDIPPNTRVGTKRYMPPEVLDESINRNHFQSYIMADMYSF
 GLILWEVARRCVSGGIVEEYQLPYHDLVPSDPSYEDMREIVCIKKLRPSFPNRWSSD
 ECLRQMGKLMTECWAHNPASRLTALRVKKTAKMSESQDIKL

Usage

Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

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

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mRNA Refseq	NM_001203
Protein Refseq	NP_001194
MIM	603248
UniProt ID	O00238

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