

# Recombinant Full Length Human BMPR1B Protein, GST-tagged

Cat. No. BMPR1B-3753HF Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Human BMPR1B full-length ORF ( AAH47773, 14 a.a. - 502 a.a.) recombinant protein with GST-tag at N-terminal.

### Species

Human

### Source

In Vitro Cell Free System

### ProteinLength

14-502 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

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

### Molecular Mass

79.53 kDa

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**AA Sequence**

KKEDGESTAPTPRPKVLRCCKHHHCPEDSVNNICSTDGYCFTMIEEDDSGLPVVTS  
 GCLGLEGSDFQCRDTPIPHQRRSIECCTERNECNKDLHPTLPPLKNRDFVDGPIHHR  
 ALLISVTVCSLLLVLILFCYFRYKRQETRPYSIGLEQDETYIPPGESLRDLIEQSQSS  
 GSGSGLPLLVRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVAVKVFFTTTEEASW  
 FRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDYLKSTTLDAKS  
 MLKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVKFIS  
 DTNEVDIPPNTRVGTKRYMPPEVLDES LN RNHFQSYIMADMYSFGLILWEVARRCV  
 SGGIVEEYQLPYHDLVPSDPSYEDMREIVCIKKLRPSFPNRWSSDECLRQMGKLMT  
 ECWAHNPASRLTALRVKKTFAKMSSESQDIKL

**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** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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](#)

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**MIM** 603248

**UniProt ID** O00238

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