

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

KKEDGESTAPTPRPKVLRCCKHHHCPEDSVNNICSTDGYCFTMIEEDDSGLPVVTS
 GCLGLEGSDFQCRDTPIPHQRRSIECCTERNECNKDLHPTLPPLKNRDFVDGPIHHR
 ALLISVTVCSLLLVLILFCYFRYKRQETRPRYSIGLEQDETYIPPGESLRDLIEQSQSS
 GSGSGLPLLVRQRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVAVKVFFFTTEEASW
 FRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDYLKSTTLDAKS
 MLKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVKFIS
 DTNEVDIPPNTRVGKRYMPPEVLDESINRNHFQSYIMADMYSFGLILWEVARRCV
 SGGIVEEYQLPYHDLVPSDPSYEDMREIVCIKKLRPSFPNRWSSDECLRQMGKLMT
 ECWAHNPASRLTALRVKKTFAKMSESQDIKL

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
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UniProt ID	O00238
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