

Recombinant Human Bone Morphogenetic Protein Receptor, Type IB, GST-tagged

Cat. No. BMPR1B-992H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BMPR1B (149-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	149-end a.a.
Description	BMPR1B (also known as ALK6) is a member of the transmembrane serine/threonine kinase that is the member of the bone morphogenetic protein (BMP) receptor, which is closely related to the activin receptors, ACVR1 and ACVR2. ALK6 is mainly involved in the endochondral bone formation and embryogenesis. ALK6 expressed in normal and cancerous prostate tissues and used in the endocrine therapy that given to the prostate cancer patients. BMPR1B receptor trafficking also play a significant role in FOP pathogenesis and used in human T-cell differentiation.
Applications	Kinase Assay; Western Blot
Molecular Weight	68 kDa
Expression System	Sf9 insect cells using baculovirus
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM

 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

	glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	23 nmol/min/mg
Purity	> 85 %
Concentration	0.1 ug/ul
Sequences	149-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Cytokine-cytokine receptor interaction; TGF-beta signaling pathway; Signaling by BMP; Ovarian Infertility Genes

GENE INFORMATION

Gene Name	BMPR1B bone morphogenetic protein receptor, type IB [Homo sapiens]
Official Symbol	BMPR1B
Synonyms	BMPR1B; bone morphogenetic protein receptor, type IB; ALK6; ALK-6; CDw293; bone morphogenetic protein receptor type-1B; BMPR-1B; BMP type-1B receptor; activin receptor-like kinase 6; serine/threonine receptor kinase; Bone morphogenetic protein receptor type-1B; BMP type-1B receptor; BMPR-1B; EC 2.7.11.30; OTTHUMP00000161621; OTTHUMP00000161622; OTTHUMP00000219359; OTTHUMP00000219880; OTTHUMP00000219882
Gene ID	658

 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

mRNA Refseq	NM_001203
Protein Refseq	NP_001194
MIM	603248
UniProt ID	O00238
Chromosome Location	4q23-q24
Function	ATP binding; SMAD binding; activin receptor activity, type II; metal ion binding; nucleotide binding; protein serine/threonine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta receptor activity; transmembrane receptor protein serine/threonine kinase activity

 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