

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

Cat. No. BMPR1A-991H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BMPR1A (187-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	187-end a.a.
Description	BMPR1A (also known as bone morphogenetic protein receptor 1A) is a member of the transmembrane serine/threonine kinase family that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. BMPR1A act as a minor susceptibility gene for PTEN-mutation-negative Cowden syndrome. BMPR1A regulates the PTEN protein levels by decreasing PTEN's association with the degradative pathway. BMPR1A trafficking plays a significant role in FOP pathogenesis and is also involved in human T-cell differentiation.
Applications	Kinase Assay; Western Blot
Molecular Weight	66 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

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	glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	1.2 nmol/min/mg
Purity	> 90 %
Concentration	0.1 ug/ul
Sequences	187-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; Endochondral Ossification; Heart Development

GENE INFORMATION

Gene Name	BMPR1A bone morphogenetic protein receptor, type IA [Homo sapiens]
Official Symbol	BMPR1A
Synonyms	BMPR1A; bone morphogenetic protein receptor, type IA; ALK3; SKR5; CD292; ACVRLK3; 10q23del; bone morphogenetic protein receptor type-1A; ALK-3; BMPR-1A; BMP type-1A receptor; activin receptor-like kinase 3; activin A receptor, type II-like kinase 3; serine/threonine-protein kinase receptor R5; Bone morphogenetic protein receptor type-1A; BMPR-1A; Activin receptor-like kinase 3; Serine/threonine-protein kinase receptor R5; EC 2.7.11.30; OTTHUMP00000020014
Gene ID	657

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mRNA Refseq	NM_004329
Protein Refseq	NP_004320
MIM	601299
UniProt ID	P36894
Chromosome Location	10q22.3
Function	ATP binding; SMAD binding; magnesium ion binding; activin receptor activity, type II; metal ion binding; nucleotide binding; protein binding; protein homodimerization activity; protein serine/threonine kinase activity; receptor activity; transferase activity; transforming growth factor beta receptor activity; transmembrane receptor protein serine/threonine kinase activity
ProteinBMPRI1A PDB 1es7.	