

Recombinant Full Length Human BMPR1A Protein, GST-tagged

Cat. No. BMPR1A-3749HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BMPR1A full-length ORF (AAH28383, 1 a.a. - 532 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	532 amino acids
Description	The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	84.26 kDa

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AA Sequence

MPQLYIYIRLLGAYLFIISRVQGQNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPF
 LKCYCSGHCPDDAINNTCITNGHCFIIEEDDQGETTLASGCMKYEGSGFQCKDSPK
 AQLRRTIECCRTNLCNQYLQPTLPPVIGPFFDGSIRWLVLISMVAVCIAMIIFSSCFC
 YKHYCKSISSRRRYNRDLEQDEAFIPVGESLKDLDVDSQSSGSGSGLPLLQRTIAK
 QIQMVRQVGKGRYGEVWMGKWRGEKVAVKVFFTTEEASWFRETEIYQTVLMRHE
 NILGFIAADIKGTGSWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAAACGLCHL
 HTEIYGTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGT
 KRYMAPEVLDES LNKNHFQPYIMADIYSFGLIIWEMARRCITGGIVEEYQLPYYNMVP
 SDPSYEDMREVVCVKRLRPVSNRWNSDECLRAVLKLMSECWAHNPA SRLTALRIK
 KTLAKMVESQDVKI

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 **BMPR1A bone morphogenetic protein receptor, type IA [Homo sapiens]**

Official Symbol **BMPR1A**

Synonyms BMPR1A; bone morphogenetic protein receptor, type IA; ACVRLK3; bone morphogenetic protein receptor type-1A; ALK3; CD292; 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; SKR5; 10q23del;

Gene ID **657**

mRNA Refseq **NM_004329**

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Protein Refseq	NP_004320
MIM	601299
UniProt ID	P36894

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