

Recombinant Full Length Human BMPR1A Protein

Cat. No. BMPR1A-3748HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BMPR1A full-length ORF (NP_004320.2) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	376 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	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
Molecular Mass	60.2 kDa
AA Sequence	MPQLYIYIRLLGAYLFIISRVQGQNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPF LKCYCSGHCPDDAINNTCITNGHCFIIEEDDQGETTLASGCMKYEGSDFQCKDSPK

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AQLRRTIECCRTNLCNQYLQPTLPPVIGPFFDGSIRWLVLISMVAVCIAMIIFSSCFC
YKHYSKSISSRRRYNRDLEQDEAFIPVGESLKDLDQSSSGSGSLPLLQRTIAKQ
IQMVRQVGKGRYGEVWMGKWRGEKVAVKVFFTEEASWFRTEIYQTVLMRHENI
LGFIADIKGTGSWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAAACGLCHLH
TEIYGTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGTK
RYMAPEVLDES LNKNHFQPYIMADIYSFGLIWE MARRCITGGIVEEYQLPYNMVPS
DPSYEDMREVVCKRLRPIVSNRWNSDECLRAVLKLMSECWAHNPASRLTALRIKK
TLAKMVESQDVKI

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	25 mM Tris-HCl of pH8.0 containing 2% glycerol.

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
Protein Refseq	NP_004320

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MIM	601299
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UniProt ID	P36894
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