

Recombinant Human BMPR1A Protein, His-tagged

Cat. No. BMPR1A-107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BMPR1A protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	532
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	Lyophilized
Molecular Mass	15.7 kDa
AA Sequence	MPQLYIYIRLLGAYLFIISRVQGQNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPF LKCYCSGHCPDDAINNTCITNGHCFAlIEEDDQGETTLASGCMKYEGSDFQCKDSPK

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AQLRRTIECCRTNLCNQYLQPTLPPVIGPFFDGSIRWLVLISMVAVCIAMIIFSSCFC
YKHYCKSISSRRRYNRDLEQDEAFIPVGESLKDLDQSQSSGSGSGLPLLQRTIAKQ
IQMVRQVGKGRYGEVWMGKWRGEKVAVKVFFTEEEASWFRETEIYQTVLMRHENI
LGFIADIKGTGSWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAAACGLCHLH
TEIYGTQGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGTK
RYMAPEVLDES LNKNHFQPYIMADIYSFGLIWE MARRCITGGIVEEYQLPYYNMVPS
DPSYEDMREVVVCVKRLRPIVSNRWNSDECLRAVLKLMSECWAHNPASRLTALRIKK
TLAKMVESQDVKI

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name **BMPR1A bone morphogenetic protein receptor, type IA [Homo sapiens (human)]**

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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
MIM	601299
UniProt ID	P36894

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