

## Recombinant Human BMPR1A Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human BMPR1A protein with His tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	532
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	15.7 kDa
<b>AA Sequence</b>	MPQLYIYIRLLGAYLFIISRVQGNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPF LKCYS CSGHCPDDAINNTCITNGHCF AII EEDDQGETTLASGCMKYEGSDFQCKDSPK

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AQLRRTIECCRTNLCNQYLQPTLPPVVIGPFFDGSIRWLVLLISMAVCIAMIIFSSFC  
 YKHYCKSISSRRRYNRDLEQDEAFIPVGESLKDLDQSQSSGSGSGLPLLQRTIAKQ  
 IQMVRQVGKGRYGEVWMGKWRGEKVAVKVFFTTEEASWFRETEIYQTVLMRHENI  
 LGFIAADIKGTGSWTQLYLITDYHENGSLYDFLKCATLDTRALLKLAYSAAACGLCHLH  
 TEIYGTQGGKPAIAHRDLKSKNILIKKNGSCCIADLGLAVKFNSDTNEVDVPLNTRVGTK  
 RYMAPEVLDES LNKNHFQPYIMADIYSFGLIIEWEMARRCITGGIVEEYQLPYNMVPS  
 DPSYEDMREVVCKRLRPIVSNRWNSDECLRAVLKLMSECWAHNPASRLTALRIKK  
 TLAKMVESQDVKI

<b>Purity</b>	> 98%
<b>Applications</b>	WB; ELISA; FACS; FC
<b>Stability</b>	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.
<b>Storage</b>	At -20 centigrade.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	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

<b>Gene Name</b>	<b>BMPR1A bone morphogenetic protein receptor, type IA [ Homo sapiens (human) ]</b>
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<b>Official Symbol</b>	<a href="#">BMPR1A</a>
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">657</a>
<b>mRNA Refseq</b>	<a href="#">NM_004329</a>
<b>Protein Refseq</b>	<a href="#">NP_004320</a>
<b>MIM</b>	<a href="#">601299</a>
<b>UniProt ID</b>	<a href="#">P36894</a>

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