

Recombinant Human BMPR1A Protein, Fc/His-tagged

Cat. No. BMPR1A-867H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMPR1A fused with Fc/His tag at C-terminal was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<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>
Form	Lyophilized from a 0.2 M filtered solution of PBS, pH 7.4
Molecular Mass	42.1kD
AA Sequence	<p>QNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPFLKCYCSGHCPDDAINNTCITN GHCFAIIEEDDQGETTLASGCMKYEGSDFQCKDSPAQLRRTIECCRTNLCNQYLQ PTLPPVVIGPFFDGSIRVDDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKP</p>

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KDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVV
SVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTK
NQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDGSFFLYSKLTVDKSR
WQQGNVFSCSVMHEALHNHYTQKSLSLSPGKHHHHHH

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 g/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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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