

Active Recombinant Human BMPR1A, Fc-tagged, Biotinylated

Cat. No. BMPR1A-553H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human BMPR1A-Fc fusion protein is expressed as a 354 amino acid protein consisting of Gln24 - Ser150 region of BMPR1A (UniProt accession #P36894) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	Human Cells
ProteinLength	24-150 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Recombinant BMPR1A protein binds human BMP2 and BMP4, and blocks BMP2/BMP4-induced signaling activity (e.g., alkaline phosphatase production in chondrogenic cells).
Molecular Mass	Calculated molecular mass (kDa): 39.4; Estimated by SDS-PAGE under reducing condition (kDa): 50-55
AA Sequence	QNLDSMLHGTGMKSDSDQKKSENGVTLAPEDTLPFLKCYCSGHCPDDAINNTCITN GHCFAIIEEDDQGETTLA SGCMKYEGSDFQCKDSPKAQLRRTIECCRTNLCNQYLQ PTLPPVVIGPFFDGSTGTHTCPPCPAPELLGGPSVF LFPPKPKDTLMISRTPEVTCV VVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWL NG

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KEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFY
PSDIAVEWESNGQPE NNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFCSSVM
HEALHNHYTQKSLSLSPGK

Endotoxin <0.1 eu per 1 µg of purified recombinant protein determined by the

Purity >95% judged by SDS-PAGE under reducing condition

Storage The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation Biotin

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
Chromosome Location	10q22.3
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Heart Development, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem;
Function	ATP binding; SMAD binding; activin receptor activity, type II; metal ion binding; nucleotide binding; protein binding; protein homodimerization activity; protein serine/threonine kinase activity; receptor activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity;