

Active Recombinant Human BMPR1A protein, Fc-His-tagged

Cat. No. BMPR1A-771H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human BMPR1A protein(Met 1-Arg 152)(NP_004320.2) was expressed in HEK293, fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-152 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	Measured by its ability to inhibit BMP4 induced activity in MC3T3-E1 Mouse osteoblastic cells. The ED50 for this effect is typically 0.1-0.3 µg/ml in the presence of 50 ng/mL of recombinant human BMP4.
Molecular Mass	The recombinant human ALK3/Fc is a disulfide-linked homodimeric protein after removal of the signal peptide. The reduced monomer consists of 376 amino acids and has a predicted molecular mass of 42 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh ALK3/Fc monomer is approximately 56 kDa due to glycosylation.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 97 % as determined by SDS-PAGE

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Storage Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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](#)

MIM [601299](#)

UniProt ID [P36894](#)

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