

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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