Active Recombinant Mouse Bmpr1a protein, His&hFc-tagged

Cat. No. Bmpr1a-247M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Bmpr1a protein(NP_033888.2)(Met1-Arg152), fused with His and hFc tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Arg152
Form	Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
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 mouse ALK3/Fc is a disulfide-linked homodimer 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 rm ALK3/Fc monomer is approximately 60 kDa due to glycosylation.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted 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 1A [Mus musculus]
Official Symbol	Bmpr1a
Synonyms	BMPR1A; bone morphogenetic protein receptor, type 1A; bone morphogenetic protein receptor type-1A; SKR5; ALK-3; BMPR-1A; BMP type-1A receptor; BMP-2/BMP-4 receptor; activin receptor-like kinase 3; serine/threonine-protein kinase receptor R5; ALK3; Bmpr; BMPR-IA; AU045487; 1110037I22Rik;
Gene ID	12166
mRNA Refseq	NM_009758
Protein Refseq	NP_033888

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