Active Recombinant Mouse Acvr2a protein(Met1-Pro134), His&hFc-tagged

Cat. No. Acvr2a-493M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse ACVR2A (NP_031422.3) (Met 1-Pro 134) was expressed in HEK293, fused with the C-terminal polyhistidine-tagged Fc region of Human IgG1 at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Pro134
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 20-60 ng/mL in the presence of 10 ng/mL recombinant Activin A.
Molecular Mass	The secreted recombinant mouse ACVR2A/Fc chimera is a disulfide-linked homodimer. The reduced monomer comprises 363 amino acids and has a calculated molecular mass of 41.4 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 55-65 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.

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Purity	> 97 % 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	Acvr2a activin receptor IIA [Mus musculus]
Official Symbol	Acvr2a
Synonyms	ACVR2A; activin receptor IIA; activin receptor type-2A; ACTR-IIA; activin receptor type IIA; Acvr2; ActrIIa; TactrII;
Gene ID	11480
mRNA Refseq	NM_007396
Protein Refseq	NP_031422

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