Active Recombinant Mouse ACVR2B protein(Met1-Thr134), His&hFc-tagged

Cat. No. ACVR2B-198M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse ACVR2B (NP_031423.1)(Met 1-Thr 134) was expressed in HEK293, fused with the Fc region of Human IgG1 at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Thr134
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	1. Measured by its ability to bind biotinylated Human INHBA-his in functional ELISA. 2. Measured by its ability to bind biotinylated mouse INHBA-his in functional ELISA. 3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell prolifeRation. The ED50 for this effect is typically 10-50 ng/mL in the presence of 10 ng/mL recombinant Activin A.
Molecular Mass	The recombinant mouse ACVR2B/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 364 amino acids and has a predicted molecular mass of 41 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmACVR2B/Fc monomer is approximately 60-65 kDa due to glycosylation.

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Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
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	Acvr2b activin receptor IIB [Mus musculus]
Official Symbol	ACVR2B
Synonyms	ACVR2B; activin receptor IIB; activin receptor type-2B; ACTR-IIB; activin receptor type IIB; ActRIIB;
Gene ID	11481
mRNA Refseq	NM_007397
Protein Refseq	NP_031423

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