

Active Recombinant Mouse Acvr2b protein, His-tagged

Cat. No. Acvr2b-424M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Acvr2b protein(NP_031423.1)(Met1-Thr134), fused with His tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	1-134 a.a.
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. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized Mouse ACVR2B at 2µg/mL (100 µl/well) can bind biotinylated mouse INHBA-His, The EC50 of biotinylated mouse INHBA-His is 40-95 ng/mL.2. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.2-0.8 g/mL in the presence of 10 ng/mL recombinant Activin A.
Molecular Mass	The recombinant mouse ACTRIIB/ACVR2B comprises 127 amino acids and has a predicted molecular mass of 14.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmACVR2B is approximately 33-37 kDa due to glycosylation.

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Proteinlength	Met1-Thr134
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 94 % 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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