

Active Recombinant Human ACVR2B protein, hFc-tagged

Cat. No. ACVR2B-196H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human ACVR2B protein(Met 1-Thr 134)(NP_001097.2) was expressed in HEK293 with the fused human IgG1 Fc region at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-134 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	1. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.02-0.1 µg/mL in the presence of 10 ng/mL recombinant Activin A. 2. Measured by its binding ability in a functional ELISA. 3. Immobilized human ACVR2B at 10 µg/mL (100 µl/well) can bind biotinylated human INHBA-His, The EC50 of biotinylated human INHBA-His is 0.112 µg/mL. 4. Immobilized human ACVR2B at 10 µg/mL (100 µl/well) can bind biotinylated mouse INHBA-His, The EC50 of biotinylated mouse INHBA-His is 0.161 µg/mL.
Molecular Mass	The recombinant human ACVR2B/Fc chimera is a disulfide-linked homodimer generated after removal of the signal peptide. The reduced monomer comprises 354 amino acids and predicts a molecular mass of 40.0 kDa. As a result of glycosylation, the monomer migrates as an approximately 60-65 kDa protein in SDS-PAGE under reducing conditions.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1 EU/g as determined by LAL test.
Purity	> 97 % as determined by SDS-PAGE
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	ACVR2B activin A receptor, type IIB [Homo sapiens]
Official Symbol	ACVR2B
Synonyms	ACVR2B; activin A receptor, type IIB; activin receptor type-2B; ActR IIB; HTX4; ACTRIIB; ActR-IIB;
Gene ID	93
mRNA Refseq	NM_001106
Protein Refseq	NP_001097
MIM	602730
UniProt ID	Q13705

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