

# Active Recombinant Human ACVR2B, Fc-tagged, Biotinylated

Cat. No. ACVR2B-533H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	The recombinant human ACVR2B-Fc fusion protein is expressed as a 344 amino acid protein consisting of Ser19 - Thr134 region of ACVR2B (UniProt accession #Q13705) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	19-134 a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Immobilized ACVR2B binds Activin or Inhibin in a functional ELISA. Neutralize Activin-induced inhibition of MPC11 cell proliferation and hemoglobin expression in K562 human chronic myelogenous leukemia cells.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 38.9; Estimated by SDS-PAGE under reducing condition (kDa): ~55
<b>AA Sequence</b>	SGRGEAETRECIYYNANWELERTNQSGLERCEGEQDKRLHCYASWRNSSGTIELV KKGCVLDDFNCYDRQECVA TEENPQVYFCCCEGNFCNERFTHLPEAGGPEVTYE PPPTAPTSTGHTCPCPAPELLGGPSVFLFPPKPKDT LMISRTPEVTCVVVDVSHE DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVKS

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NKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEV  
ESNGQPENNYKTTTPV LQSDGSEFLYSLKLTVDKSRWQQGNVDFSCSVMHEALHNHY  
TQKLSLSLSPGK

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the

**Purity** >95% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation** Biotin

## 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](#)

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<b>MIM</b>	602730
<b>UniProt ID</b>	Q13705
<b>Chromosome Location</b>	3p22
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Developmental Biology, organism-specific biosystem; Regulation of Signaling by NODAL, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by BMP, organism-specific biosystem; Signaling by NODAL, organism-specific biosystem;
<b>Function</b>	ATP binding; activin binding; activin receptor activity, type II; contributes_to activin receptor activity, type II; growth factor binding; inhibin beta-A binding; inhibin beta-B binding; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity;

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