

Active Recombinant Human ACVR2B, Fc-tagged, Biotinylated

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
ProteinLength	19-134 a.a.
Form	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).
Bio-activity	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.
Molecular Mass	Calculated molecular mass (kDa): 38.9; Estimated by SDS-PAGE under reducing condition (kDa): ~55
AA Sequence	SGRGEAETRECIYYNANWELERTNQSGLERCEGEQDKRLHCYASWRNSSGTIELV KKG CWLDDFNCYDRQECVA TEENPQVYFCCCEGNFCNERFTHLPEAGGPVETYE PPPTAPTSTGTHTCPPCPAPELLGGPSVFLFPPKPKDT LMISRTPEVTCVVVDVSHE DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVKS

 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

NKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEW
ESNGQPENNYKTTTPV LDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHY
TQKSLSLSPGK

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](#)

 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

MIM	602730
UniProt ID	Q13705
Chromosome Location	3p22
Pathway	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;
Function	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;