

Active Recombinant Human ACVR1B, Fc-tagged, Biotinylated

Cat. No. ACVR1B-528H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human ACVR1B-Fc fusion protein is expressed as a 331 amino acid protein consisting of Ser24 - Glu126 region of ACVR1B (UniProt accession #P36896) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	Human Cells
ProteinLength	24-126 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 ACVR1B binds human Cripto in a functional ELISA. Blocks Cripto-mediated signaling activity.
Molecular Mass	Calculated molecular mass (kDa): 37.0; Estimated by SDS-PAGE under reducing condition (kDa): ~45
AA Sequence	SGPRGVQALLCACTSCSLQANYTCETDGACMVSIFNLDGMEHHVRTCIPKVELVPAG KPFYCLSSDLRNTGCCY TDYCNRIDLRVPSGHLKEPEHPSMWGPVESTGHTTCP PCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVV VDVSHEDPEVKFNWYVDGVE VHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS KAK GQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTPP

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VLDSGDSFFLYSKL TVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

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 [ACVR1B activin A receptor, type IB \[Homo sapiens \]](#)

Official Symbol ACVR1B

Synonyms ACVR1B; activin A receptor, type IB; ACVRLK4; activin receptor type-1B; ActRIB; ALK4; SKR2; activin receptor-like kinase 4; activin A receptor, type II-like kinase 4; serine/threonine-protein kinase receptor R2; ACTRIB;

Gene ID [91](#)

mRNA Refseq [NM_004302](#)

Protein Refseq [NP_004293](#)

MIM [601300](#)

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UniProt ID	P36896
Chromosome Location	12q13
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Developmental Biology, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; Regulation of Signaling by NODAL, organism-specific biosystem; Signaling by NODAL, organism-specific biosystem;
Function	ATP binding; SMAD binding; contributes_to activin binding; activin receptor activity, type I; activin receptor activity, type I; contributes_to activin-activated receptor activity; contributes_to growth factor binding; inhibin binding; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; receptor activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity; ubiquitin protein ligase binding;

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