

Active Recombinant Human ACVR1C, Fc-tagged, Biotinylated

Cat. No. ACVR1C-530H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human ACVR1C/ALK7-Fc fusion protein is expressed as a 320 amino acid protein consisting of Leu22 - Glu113 region of ACVR1C (UniProt accession #Q8NER5) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	Human Cells
ProteinLength	22-113 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 ACVR1C binds human Nodal in a functional ELISA. Blocks Nodal-mediated signaling activity.
Molecular Mass	Calculated molecular mass (kDa): 35.5; Estimated by SDS-PAGE under reducing condition (kDa): 50-55
AA Sequence	LSPGLKCVCLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCVSLPELNAQVFCHS SNNVTKTECCFTDFCNI TLHLPTASPNAPKLGPMESTGTHTCPPCPAPELLGGPS VFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF NWYVDGVEVHNAKTKPREEQ YNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV YTLF PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYS

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KLTVDKSRWQQGNV FSCSVMHEALHNHYTQKSLSLSPGK

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 ACVR1C activin A receptor, type IC [Homo sapiens]

Official Symbol ACVR1C

Synonyms ACVR1C; activin A receptor, type IC; activin receptor type-1C; ACVRLK7; ALK7; ALK-7; ACTR-IC; activin receptor type IC; activin receptor-like kinase 7;

Gene ID 130399

mRNA Refseq NM_001111031

Protein Refseq NP_001104501

MIM 608981

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UniProt ID	Q8NER5
Chromosome Location	2q24.2
Pathway	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; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	ATP binding; activin receptor activity, type I; metal ion binding; nucleotide binding; receptor activity; transforming growth factor beta-activated receptor activity;

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