

## Active Recombinant Human ACVR1C, Fc-tagged

Cat. No. ACVR1C-531H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	22-113 a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free).
<b>Bio-activity</b>	Immobilized ACVR1C binds human Nodal in a functional ELISA. Blocks Nodal-mediated signaling activity.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 35.5; Estimated by SDS-PAGE under reducing condition (kDa): 50-55
<b>AA Sequence</b>	LSPGLKCVCLLCDSSNFTCQTEGACWASVMLTNGKEQVIKSCVSLPELNAQVFCHS SNNVTKTECCFTDFCNNI TLHLPTASPNAPKLGPMESTGHTHTCPPCPAPELLGGPS VFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKF NWYVDGVEVHNAKTKPREEQ YNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQV YTLP PSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYS KLTVDKSRWQQGNV FSCSVMHEALHNHYTQKSLSLSPGK

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<b>Endotoxin</b>	<0.1 eu per 1 µg of purified recombinant protein determined by the
<b>Purity</b>	>95% judged by SDS-PAGE under reducing condition.
<b>Storage</b>	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.

## GENE INFORMATION

<b>Gene Name</b>	ACVR1C activin A receptor, type IC [ Homo sapiens ]
<b>Official Symbol</b>	ACVR1C
<b>Synonyms</b>	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;
<b>Gene ID</b>	130399
<b>mRNA Refseq</b>	NM_001111031
<b>Protein Refseq</b>	NP_001104501
<b>MIM</b>	608981
<b>UniProt ID</b>	Q8NER5
<b>Chromosome Location</b>	2q24.2

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**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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