

Active Recombinant Human ACVR1, Fc-tagged, Biotinylated

Cat. No. ACVR1-526H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human ACVR1-Fc fusion protein is expressed as a 331amino acid protein consisting of Met21 - Glu123 region of ACVR1 (UniProt accession #Q04771) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	Human Cells
ProteinLength	21-123 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBSpH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Immobilized ACVR1 protein binds human BMP6 in a functional ELISA. Blocks BMP6-mediated signaling activity.
Molecular Mass	Calculated molecular mass (kDa): 37.1; Estimated by SDS-PAGE under reducing condition (kDa): ~45
AA Sequence	MEDEKPKVNPPLYMCVCEGLSCGNEDHCEGQQCFSSLSINDGFHVYQKGCFQVYE QGKMTCKTPPSPGQAVECC QGDWCNRNITAQLPTKGKSFPGTQNFHLESTGHT CPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVV DVSHEDPEVKFNWYVDG VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTIS K AKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT

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	PPVLDSGDGSFFLYSKLT VDKSRWQQGNVFSCSVMH EALHNHYTQKSLSLSPGK
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	ACVR1 activin A receptor, type I [Homo sapiens]
Official Symbol	ACVR1
Synonyms	ACVR1; activin A receptor, type I; ACVRLK2; activin receptor type-1; ACVR1A; ALK2; SKR1; activin receptor type I; hydroxyalkyl-protein kinase; activin receptor-like kinase 2; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 2; serine/threonine-protein kinase receptor R1; FOP; TSRI; ACTRI;
Gene ID	90
mRNA Refseq	NM_001105
Protein Refseq	NP_001096

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MIM	102576
UniProt ID	Q04771
Chromosome Location	2q23-q24
Pathway	ALK1 pathway, organism-specific biosystem; ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	ATP binding; SMAD binding; activin binding; contributes_to activin receptor activity, type I; follistatin binding; metal ion binding; nucleotide binding; protein binding; protein homodimerization activity; protein serine/threonine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta binding; transforming growth factor beta receptor activity, type I; transmembrane receptor protein serine/threonine kinase activity;