

Active Recombinant Human ACVRL1, Fc-tagged, Biotinylated

Cat. No. ACVRL1-534H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human ACVRL1-Fc fusion protein is expressed as a 325 amino acid protein consisting of Asp22 - Gln118 region of ACVRL1 (UniProt accession #P37023) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	Human Cells
Protein Length	22-118 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 ACVRL1/ALK1 protein binds human BMP9 in a functional ELISA. Inhibits BMP9-induced alkaline phosphatase production by chondrogenic cells.
Molecular Mass	Calculated molecular mass (kDa): 36.3; Estimated by SDS-PAGE under reducing condition (kDa): ~50
AA Sequence	DPVKPSRGPLVTCTCESPHCKGPTCRGAWCTVVLVREEGRHPQEHRGCGNLHRE LCRGRPTEFVNHYCCDSHLC NHNVSLVLEATQPPSEQPGTDGQSTGTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHE DPEVKFNWYVDGVEVHNA KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQP REPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLD

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SDGSFFLYSKLTVDKSR WQQGNVFSCSVMEALHNHYTQKSLSLSPGK

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 [ACVRL1 activin A receptor type II-like 1 \[Homo sapiens \]](#)

Official Symbol ACVRL1

Synonyms ACVRL1; activin A receptor type II-like 1; ACVRLK1, ORW2; serine/threonine-protein kinase receptor R3; ALK1; HHT; HHT2; activin receptor-like kinase 1; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 1; ORW2; SKR3; ALK-1; TSR-I; ACVRLK1;

Gene ID [94](#)

mRNA Refseq [NM_000020](#)

Protein Refseq [NP_000011](#)

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MIM	601284
UniProt ID	P37023
Chromosome Location	12q11-q14
Pathway	ALK1 pathway, organism-specific biosystem; ALK1 signaling events, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem;
Function	ATP binding; SMAD binding; activin binding; activin receptor activity, type I; contributes_to activin receptor activity, type I; metal ion binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; receptor activity; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta binding; contributes_to transforming growth factor beta receptor activity, type I; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity;