

Recombinant Full Length Human ACVR1 Protein, C-Flag-tagged

Cat. No. ACVR1-1452HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACVR1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. This gene encodes activin A type I receptor which signals a particular transcriptional response in concert with activin type II receptors. Mutations in this gene are associated with fibrodysplasia ossificans progressive.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	55 kDa
AA Sequence	MVDGVMILPVLIMIALPSPSMEDEKPKVNPPLYMCVCEGLSCGNEDHCEGQQCFSS LSINDGFHVYQKGC FQVYEQGKMTCKTPSPGQAVECCQGDWCNRNITAQLPTK GKSFPGTQNFHLEVGLIILSVFVAVCLLAC LLGVALRKFKRRNQERLNPRDVEYGTIE GLITTNVG DSTLADLLDHSC TSGSGSGLPFLVQRTVARQITL LECVGKGRYGEVWR GSWQGENVAVKIFSSRDEKSWFRETELYNTVMLRHENILGFIASDMTSRHSSTQLW LITHYHEMGSLYDYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSK NILVKKNGQC CIADLGLAVMHSQSTNQLDVGNNPRVGTKRYMAPEVLDETIQVDCF DSYKRVDIWAFLVLWEVARRMVS NGIVEDYKPPFYDVVPNDPSFEDMRKVVCVD QQRPNIPNRWFSDPTLTSLAKLMKECWYQNPSARLTALR IKKTLTKIDNSLDKDKTDCTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Protein Pathways	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
Full Length	Full L.

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GENE INFORMATION

Gene Name ACVR1 activin A receptor type 1 [Homo sapiens (human)]

Official Symbol ACVR1

Synonyms FOP; ALK2; SKR1; TSRI; ACTRI; ACVR1A; ACVRLK2

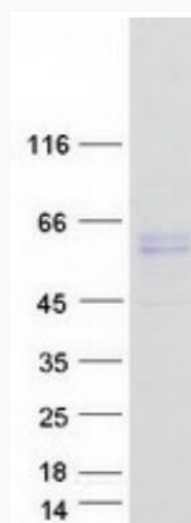
Gene ID 90

mRNA Refseq NM_001105.5

Protein Refseq NP_001096.1

MIM 102576

UniProt ID Q04771



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Coomassie blue staining of purified ACVR1 protein.

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