

# 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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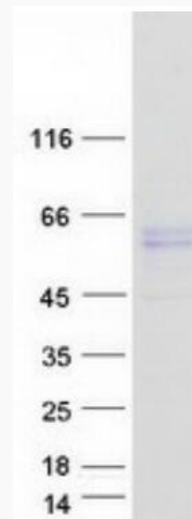
 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	55 kDa
<b>AA Sequence</b>	<p>MVDGVMILPVLIMIALPSPSMEDEKPKVNPPLYMCVCEGLSCGNEDHCEGQQCFSS          LSINDGFHVYQKGC FQVYEQGMKMTCKTPSPGQAVECCQGDWCNRNITAQLPTK          GKSFPGTQNFHLEVGLIILSVVFAVCLLAC LLGVALRKFKRRNQERLNPRDVEYGTIE          GLITTNVGDSTLADLLDHSCSTSGSGSGLPFLVQRTVARQITL LECVKGGRYGEVWR          GSWQGENVAVKIFSSRDEKSWFRETELYNTVMLRHENILGFIASDMTSRHSSTQLW          LITHYHEMGSLYDYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSK          NILVKKNGQC CIADLGLAVMHSQSTNQLDVGNNPRVGTKRYMAPEVLDETIQVDCF          DSYKRVDIWAFLVWEVARRMVS NGIVEDYKPPFYDVPNDPSFEDMRKVVVCD          QQRPNIPNRWFSPTLTLAKLMKECWYQNPSARLTALR          IKKTLTKIDNSLDKDKTDCTRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
<b>Protein Pathways</b>	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
<b>Full Length</b>	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 Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA



Coomassie blue staining of purified ACVR1 protein.

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