

# Recombinant Full Length Human ACVR1 Protein, GST-tagged

**Cat. No.** ACVR1-864HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ACVR1 full-length ORF ( AAH33867, 1 a.a. - 509 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	509 amino acids
<b>Description</b>	<p>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. [provided by RefSeq, Jul 2008]</p>
<b>Molecular Mass</b>	81.73 kDa

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**AA Sequence**

MVDGVMILPV LIMIALPSPS MEDEKPKVNP KLYMCVCEGL SCGNEDHCEG  
 QQCFSSLSIN DGFHVYQKGC FQVYEQGKMT CKTPSPGQA VECCQGDWCN  
 RNITAQLPTK GKSFPGTQNF HLEVGLIILS VVFAVCLLAC LLGVALRKFK  
 RRNQRNLNPR DVEYGTIEGL ITTNVGDSTL ADLLDHSCTS GSGSGLPFLV  
 QRTVARQITL LECVGKGRYG EVWRGSWQGE NVAVKIFSSR DEKSWFRETE  
 LYNTVMLRHE NILGFIASDM TSRHSSTQLW LITHYHEMGS LYDYQLTTL  
 DTVSCLRIVL SIASGLAHLH IEIFGTQGKP AIAHRDLKSK NILVKKNGQC  
 CIADLGLAVM HSQSTNQLDV GNNPRVGTKR YMAPEVLDET IQVDCFDSYK  
 RVDIWAFLV LWEVARRMVS NGIVEDYKPP FYDVVPNDPS FEDMRKVVCV  
 DQQRPNIPNR WFSDPTLTSL AKLMKECWYQ NPSARLTALR IKKTLTKIDN  
 SLDKTKTDC

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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;

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serine/threonine-protein kinase receptor R1; FOP; TSRI; ACTRI

<b>Gene ID</b>	90
<b>mRNA Refseq</b>	NM_001105
<b>Protein Refseq</b>	NP_001096
<b>MIM</b>	102576
<b>UniProt ID</b>	Q04771

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