

Recombinant Full Length Human ACVR1 Protein, GST-tagged

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

SPECIFICATION

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

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AA Sequence

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

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

Gene ID	90
mRNA Refseq	NM_001105
Protein Refseq	NP_001096
MIM	102576
UniProt ID	Q04771

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