

Recombinant Human ACVR1 Protein, GST-tagged

Cat. No. ACVR1-247H **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	Wheat Germ
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
AA Sequence	MVDGVMILPVLIMIALPSPSMEDEKPKVNPCLYMCVCEGLSCGNEDHCEGQQCFSS

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LSINDGFHVYQKGCFQVYEQGKMTCKTPSPGQAVECCQGDWCNRNITAQLPTKG
 KSFPGTQNFHLEVGLIILSVFVAVCLLACLLGVALRKFKRRNQERLNPRDVEYGTIEG
 LITTNVG DSTLADLLDH SCTSGSGSGLPFLVQRTVARQITLLECVGKGGRYGEVWRGS
 WQGENVAVKIFSSRDEKSWFRETEL YNTVMLRHENILGFIASDMTSRHSSTQLWLIT
 HYHEMGS LYDYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSKNIL
 VKKNGQCCIADLGLAVMHSQSTNQLDVGNNPRVGTKRYMAPEVLDETIQVDCFDSY
 KRVDIWAFLVGLWEVARRMVSN GIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQR
 PNIPNRWFSDPTLTSLAKLMKECWYQNPSARLTALRIKKT LT KIDNSLDKLTDC

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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

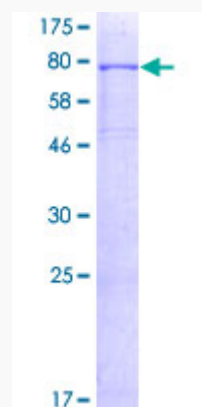
ACVR1; activin A receptor, type I; ACVRLK2; activin receptor type-1; ACVR1A; ALK2;
 SKR1; activin receptor type I; hydroxyalkyl-protein kinase; activin receptor-like kinase
 2; TGF-B superfamily receptor type I; activin A receptor, type II-like kinase 2;
 serine/threonine-protein kinase receptor R1; FOP; TSRI; ACTRI;

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



12.5% SDS-PAGE Stained with Coomassie Blue.