

Recombinant Human ACVR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACVR1-5028H Lot. No. (See product label)

SPECIFICATION

Product Overview ACVR1 MS Standard C13 and N15-labeled recombinant protein (NP_001096) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species Human

Source HEK293

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.

Molecular Mass 57.15 kDa

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AA Sequence

MVDGVMILPVLIMIALPSPSMEDEKPKVNPPLYMVCVEGLSCGNEDHCEGQQCFSS
 LSINDGFHVYQKGCQVYEQGKMTCKTPPSPGQAVECCQGDWCNRNITAQLPTKG
 KSFPGTQNFHLEVGLIILSVVFAVCLLACLLGVALRKFKRRNQERLNPRDVEYGTIEG
 LITNVGDSTLADLLDHSCTSGSGSGLPFLVQRTVARQITLLECVGKGRYGEVWRGS
 WQGENVAVKIFSSRDEKSWFRETELYNTVMLRHENILGFASDMTSRHSSTQLWLIT
 HYHEMGSLYDYQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSKNIL
 VKKNGQCCIADLGLAVMHSQSTNQLDVGN NPRVGTKRYMAPEVLDETIQVDCFDSY
 KRVDIWAFGLVLWEVARRMVSNGIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQR
 PNIPNRWFSPTLTSLAKLMKECWYQNPSARLTALRIKTLTKIDNSLDKDKTDCTRT
 RPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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;

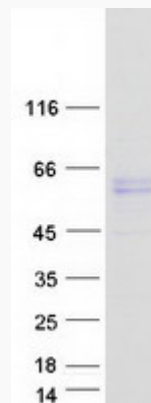
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serine/threonine-protein kinase receptor R1; FOP; TSRI; ACTRI;

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

SDS-PAGE Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA