

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

 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

AA Sequence	MVDGVMILPVLIMIALPSPSMEDEKPKVNPPLYMCVCEGLSCGNEDHCEGQQCFSS LSINDGFHVYQKGCFQVYEQGKMTCKTPSPGQAVECCQGDWCNRNITAQLPTKG KSFPGTQNFHLEVGLIILSVFAVCLLACLLGVALRKFKRRNQERLNPRDVEYGTIEG LITNVGDSTLADLLDHSCTS GSGSGLPFLVQRTVARQITLLECVGKGRYGEVWRGS WQGENVAVKIFSSRDEKSWFRETEL YNTVMLRHENILGFASDMTSRHSSTQLWLIT HYHEMGSLYDYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSKNIL VKKNGQCCIADLGLAVMHSQSTNQLDVGN NPRVGTKRYMAPEVLDETIQVDCFDSY KRVDIWAFLVGLWEVARRMVSN GIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQR PNIPNRWFS DPTLTSLAKLMKECWYQNPSARLTALRIKKT LT KIDNSLDKLT DCTRT 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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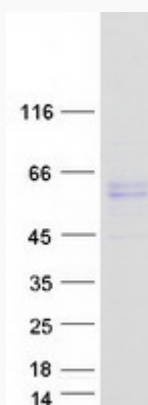
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serine/threonine-protein kinase receptor R1; FOP; TSRI; ACTRI;

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

SDS-PAGE



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