

Recombinant Human ACVR2B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACVR2B-3284H Lot. No. (See product label)

SPECIFICATION

Product Overview

ACVR2B MS Standard C13 and N15-labeled recombinant protein (NP_001097) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

ProteinLength

Full Length

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. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor.

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Molecular Mass	57.5 kDa
AA Sequence	MTAPWVALALLWGSLCAGSGRGEAETRECIYYNANWELERTNQSGLERCEGEQDK RLHCYASWRNSSGTIELVKKGCWLDDFNCYDRQECVATEENPQVYFCCCEGNFCN ERFTHLPEAGGPEVTYEPPTAPTLLTVLAYSLLPIGGLSLIVLLAFWMYRHRKPPYG HVDIHEDPGPPPPSPLVGLKPLQLLEIKARGRFGCVWKAQLMNDFVAVKIFPLQDKQ SWQSEREIFSTPGMKHENLLQFIAAEKRGSNLEVELWLITAFHDKGSLTDYLGKNIIT WNELCHVAETMSRGLSYLHEDVPWCRGEGHKKPSIAHRDFKSKNVLLKSDLTAVLAD FGLAVRFEPGKPPGDTHGQVGTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWE LVSRCKAADGPVDEYMLPFEEEEIGQHPSLEELQEVVHKKMRPTIKDHWLKHPLA QLCVTIEECWDHDAEARLSAGCVEERVSLIRRSVNGTTSCLVSLVTSVTNVDLPPK ESSITRTRPLEQKLISEEDLAANDILDYKDDDDKV
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	ACVR2B activin A receptor type 2B [Homo sapiens (human)]
Official Symbol	ACVR2B
Synonyms	ACVR2B; activin A receptor, type IIB; activin receptor type-2B; ActR IIB; HTX4;

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ACTRIIB; ActR-IIB;

Gene ID

93

mRNA Refseq

NM_001106

Protein Refseq

NP_001097

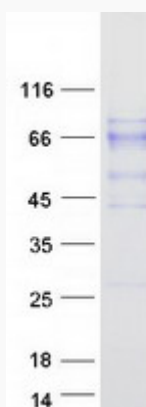
MIM

602730

UniProt ID

Q13705

SDS-PAGE



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