

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

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

## SPECIFICATION

<b>Product Overview</b>	ACVR2B MS Standard C13 and N15-labeled recombinant protein (NP_001097) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
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<b>Species</b>	Human
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<b>Source</b>	HEK293
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<b>ProteinLength</b>	Full Length
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### 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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<b>Molecular Mass</b>	57.5 kDa
<b>AA Sequence</b>	<p>MTAPWVALALLWGSLCAGSGRGEAETRECIYYNANWELERTNQSGLERCEGEQDK          RLHCYASWRNSSGTIELVKKGCWLDDFNCYDRQECVATEENPQVYFCCCEGNFCN          ERFTHLPEAGGPEVTYEPPTAPTLLTVLAYSLLPIGGLSLIVLLAFWMYRHRKPPYG          HVDIHEDPGPPPSPLVGLKPLQLLEIKARGRFGCVWKAQLMNDVAVKIFPLQDKQ          SWQSEREIFSTPGMKHENLLQFIAAEKRGSNLEVELWLITAFHDKGSLTDYLGNIIT          WNELCHVAETMSRGLSYLHEDVPWCRGEGHFKPSIAHRDFKSKNVLLKSDLTAVLAD          FGLAVRFEPGKPPGDTHGQVGTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWE          LVS RCKAADGPVDEYMLPFEEEIGQHPSLEELQE VVVHKKMRPTIKDHWLKHPLA          QLCVTIEECWDHDAEARLSAGCVEERVSLIRRSVNGTTS DCLVSLVTSVTNVDLPPK          ESSITRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	ACVR2B activin A receptor type 2B [ Homo sapiens (human) ]
<b>Official Symbol</b>	ACVR2B
<b>Synonyms</b>	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**


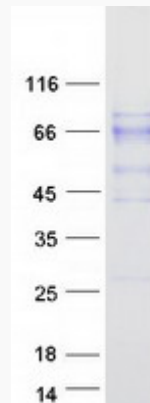
NP\_001097

**MIM**

602730

**UniProt ID**

Q13705

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