Recombinant Full Length Human ACVR2B Protein, C-Flag-tagged

Cat. No. ACVR2B-1503HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ACVR2B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-512aa
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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45-1 Ramsey Road, Shirley, NY 11967, USA

Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	57.5 kDa
AA Sequence	MTAPWVALALLWGSLCAGSGRGEAETRECIYYNANWELERTNQSGLERCEGEQDK RLHCYASWRNSSGTI ELVKKGCWLDDFNCYDRQECVATEENPQVYFCCCEGNFC NERFTHLPEAGGPEVTYEPPPTAPTLLTVLA YSLLPIGGLSLIVLLAFWMYRHRKPPY GHVDIHEDPGPPPPSPLVGLKPLQLLEIKARGRFGCVWKAQLM NDFVAVKIFPLQD KQSWQSEREIFSTPGMKHENLLQFIAAEKRGSNLEVELWLITAFHDKGSLTDYLKGN IITWNELCHVAETMSRGLSYLHEDVPWCRGEGHKPSIAHRDFKSKNVLLKSDLTAVL ADFGLAVRFEPGK PPGDTHGQVGTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLV LWELVSRCKAADGPVDEYMLPFEEEIGQ HPSLEELQEVVVHKKMRPTIKDHWLKHP GLAQLCVTIEECWDHDAEARLSAGCVEERVSLIRRSVNGTTS DCLVSLVTSVTNVDLPPKESSITRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

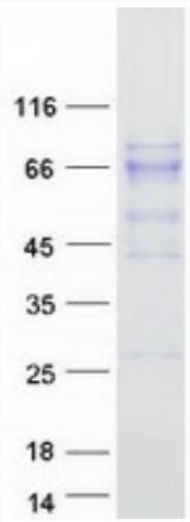
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Full Length	Full L.

GENE INFORMATION

Gene Name	ACVR2B activin A receptor type 2B [Homo sapiens (human)]
Official Symbol	ACVR2B
Synonyms	HTX4; ACTRIIB; ActR-IIB
Gene ID	93
mRNA Refseq	NM_001106.4
Protein Refseq	NP_001097.2
MIM	602730
UniProt ID	Q13705

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Coomassie blue staining of purified ACVR2B protein.

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