

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.

 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

| | |
|-------------------------|---|
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Molecular Mass | 57.5 kDa |
| AA Sequence | <p>MTAPWVALALLWGSLCAGSGRGEAETRECIYYNANWELERTNQSGLERCEGEQDK RLHCYASWRNSSGTI ELVKKGCWLDDFNCYDRQECVATEENPQVYFCCCEGNFC NERFTHLPEAGGPEVTYEPPTAPTLLTVLA YSLLPIGGLSLIVLLAFWMYRHRKPPY GHVDIHEDPGPPPSPLVGLKPLQLLEIKARGRFGCVWKAQLM NDFVAVKIFPLQD KQSWQSEREIFSTPGMKHENLLQFIAAEKRGSNLEVELWLITAFHDKGSLTDYLGKN IITWNECHVAETMSRGLSYLHEDVPWCRGEGHKPSIAHRDFKSKNVLLKSDLTAVL ADFGLAVRFEPGK PPGDTHGQVGTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLV LWELVSRCKAADGPVDEYMLPFEEEEIGQ HPSLEELQEVVVHKKMRPTIKDHWLKHP GLAQLCVTIEECWDHDAEARLSAGCVEERVSLIRRSVNGTTS DCLVSLVTSVTNVDLPPKESSITRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| 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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