

## Recombinant Human ACVR2B Protein, His-tagged

Cat. No. ACVR2B-886H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ACVR2B fused with His tag at C-terminal was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	19-134aa
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized from a 0.2 M filtered solution of 20mM PB, 150mM NaCl, pH 7.4

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<b>Molecular Mass</b>	14.37kD
<b>AA Sequence</b>	SGRGEAETRECIYYNANWELERTNQSGLERCEGEQDKRLHCYASWRNSSGTIELV KKGCWLDDFNCYDRQECVATEENPQVYFCCCEGNFCNERFTHLPEAGGPEVTYEP PPTAPTVDHHHHHHH
<b>Endotoxin</b>	Endotoxin level is <0.1 ng/g of protein (<1EU/g).
<b>Purity</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	ACVR2B activin A receptor, type IIB [ Homo sapiens ]
<b>Official Symbol</b>	ACVR2B
<b>Synonyms</b>	ACVR2B; activin A receptor, type IIB; activin receptor type-2B; ActR IIB; HTX4; ACTRIIB; ActR-IIB;
<b>Gene ID</b>	93
<b>mRNA Refseq</b>	NM_001106
<b>Protein Refseq</b>	NP_001097
<b>MIM</b>	602730

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UniProt ID

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