

Recombinant Human Activin A Receptor, Type IIB, His-tagged

Cat. No. ACVR2B-938H Lot. No. (See product label)

SPECIFICATION

Product Overview	ACVR2B contains C-terminal polyhistidine tag and has a calculated MW of 41 kDa. DTT-reduced protein migrates as 60 kDa polypeptide in SDS-PAGE.
Species	Human
Source	HEK293
Description	ACVR2B is an activin type 2 receptor. 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.
Form	Bulk protein in a 0.22 µm filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.
Purity	>97% as determined by SDS-PAGE. All lots are greater than 97% pure.
Endotoxin	Less than 1.0 EU per 1 µg of the rhACVR2B by the LAL method.
Storage	Stable in lyophilized state at 4°C for 1 year after receipt. Sterile stock solutions reconstituted are stable at 4°C for 2 months and at -20°C for 6 months. Avoid

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repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	ACVR2B activin A receptor, type IIB [Homo sapiens]
Official Symbol	ACVR2B
Synonyms	ACVR2B; activin A receptor, type IIB; ACTRIIB; ActR-IIB; MGC116908; EC 2.7.11.30; Activin receptor type-2B; ACTR-IIB; HTX4; OTTHUMP00000161965
Gene ID	93
mRNA Refseq	NM_001106
Protein Refseq	NP_001097
MIM	602730
UniProt ID	Q13705
Chromosome Location	3p22
Pathway	Cytokine-cytokine receptor interaction; TGF-beta signaling pathway; Signaling by BMP
Function	ATP binding; activin binding; activin receptor activity, type II; growth factor binding; manganese ion binding; nucleotide binding; protein serine/threonine/tyrosine kinase activity; transferase activity; receptor activity

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