Datasheet for ABIN7194130

ACVR2B Protein (His tag)

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Overview

Quantity:	100 µg
Target:	ACVR2B
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ACVR2B protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ACVR2B/ActivinR-IIB Protein (His Tag)(Active)
Sequence:	Met 1-Thr 134
Characteristics:	A DNA sequence encoding the extracellular domain of human ACVR2B (NP_001097.2) (Met 1-Thr 134) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1.Measured by its ability to bind biotinylated Human INHBA-his in functional ELISA.2. Measured by its ability to bind biotinylated Mouse INHBA-his in functional ELISA.3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.3-2 µg/mL in the presence of 10 ng/mL recombinant Activin A.

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Target Details

Target:	ACVR2B
Alternative Name:	ACVR2B/ActivinR-IIB (ACVR2B Products)
Background:	Background: ACVR2A and ACVR2B are two activin type II receptors. ACVR2B is integral to the activin and myostatin signaling pathway. Ligands such as activin and myostatin bind to ACVR2A and ACVR2B. Myostatin, a negative regulator of skeletal muscle growth, is regarded as a potential therapeutic target and binds to ACVR2B effectively, and to a lesser extent, to ACVR2A. The structure of human ACVR2B kinase domain in complex with adenine establishes the conserved bilobal architecture consistent with all other catalytic kinase domains. Haplotype structure at the ACVR2B and follistatin loci may contribute to interindividual variation in skeletal muscle mass and strength. Defects in ACVR2B are a cause of left-right axis malformations. Synonym: Activin Receptor Type-2B, Activin Receptor Type IIB, ACTR-IIB, ACVR2B,Bone Morphogenetic Protein Receptor Type-2, BMP Type-2 Receptor, BMPR-4, Bone Morphogenetic Protein Receptor Type II, BMP Type II Receptor
Molecular Weight:	15 kDa
NCBI Accession:	NP_001097
Pathways:	Hormone Transport, Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.