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Datasheet for ABIN1691710

## ACVR2B Protein (AA 19-134) (His tag,Fc Tag)

### Overview

Quantity:	50 µg
Target:	ACVR2B
Protein Characteristics:	AA 19-134
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACVR2B protein is labelled with His tag,Fc Tag.

### Product Details

Purpose:	Recombinant Human Activin Receptor 2B/Activin RIIb/ACVR2B (C-Fc-6His)
Sequence:	SGRGEAETRE CIYYNANWEL ERTNQSGLER CEGEQDKRLH CYASWRNSSG TIELVKKGCW LDDFNCYDRQ ECVATEENPQ VYFCCCEGNF CNERFTHLPE AGGPEVTYEP PPTAPTVDI EGRMDEPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSREEMTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTTPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVME ALHNHYTQKS LSLSPGKHHH HHH
Characteristics:	Recombinant Human Activin Receptor Type IIB/ACVR2B is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ser19-Thr134) of Human ACVR2B fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

## Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

## Target Details

Target: ACVR2B

Alternative Name: ACVR2B ([ACVR2B Products](#))

Sub Type: Fusionprotein

Background: Activin proteins that belong to the transforming growth factor-beta (TGF-beta) superfamily, exert their biological actions by binding to heteromeric receptor complexes of type I and type II serine/threonine kinase receptors. On ligand binding, type I and II receptors form a stable complex, resulting in phosphorylation of type I receptors by type II receptors with constitutive kinase activity, and subsequently initiates the activation of downstream molecules including the endogenous Smads. ActRIIB, also known as ActRIIB, is a type II receptor containing an extracellular domain (ECD), a transmembrane segment, and a cytoplasmic region that includes the kinase domain. ActRIIB is a receptor for activin A, activin B and inhibin A. Multiple ActRIIB isoforms can also be generated, which bind activin isoforms with different affinities.

Alternative Names: Activin Receptor Type-2B, Activin Receptor Type IIB, ACTR-IIB, ACVR2B

Molecular Weight: 41.3 kDa

UniProt: [Q13705](#)

Pathways: [Hormone Transport](#), [Cancer Immune Checkpoints](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.  
Dissolve the lyophilized protein in ddH<sub>2</sub>O.  
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

## Handling

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Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	5 months

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