

## General Information

### Gene Name Synonym

Activin receptor type IIB

### Protein Construction

A DNA sequence encoding the extracellular domain of mouse ACTRIIB (NP\_031423.1) (Met 1-Thr 134) was fused with a polyhistidine tag at the C-terminus.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA. Immobilized human ACVR2B (Cat:503817) at 10 µg/mL (100 µl/well) can bind biotinylated mouse INHBA-His (Cat:500709), The EC<sub>50</sub> of biotinylated mouse INHBA-His (Cat:500709) is 0.161 µg/mL.
2. Measured by its binding ability in a functional ELISA. Immobilized mouse INHBA-his at 10 µg/mL (100 µl/well) can bind human Follistatin Protein, The EC<sub>50</sub> of human Follistatin Protein is 0.39 µg/mL.
3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED<sub>50</sub> for this effect is typically 0.2-0.8 µg/mL in the presence of 10 ng/mL recombinant Activin A.

### Purity

> 94 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by

the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Ser 19

### Molecular Mass

The recombinant mouse ACTRIIB/ACVR2B comprises 127 amino acids and has a predicted molecular mass of 14.8 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmACVR2B is approximately 33-37 kDa due to glycosylation.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

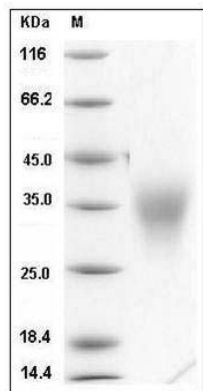
### SDS-PAGE

# Mouse ACVR2B (His Tag) recombinant protein



Catalog Number: 503228

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Mouse ACTRIIB / ACVR2B Protein (His Tag) SDS-PAGE