## Mouse ACVR2B (His & Fc Tag) recombinant protein

Catalog Number: 502428



#### **General Information**

#### Gene Name Synonym

Activin receptor type IIB

#### **Protein Construction**

A DNA sequence encoding the extracellular domain (Met 1-Thr 134) of mouse ACVR2B (NP\_031423.1) precursor was fused with the Fc region of human IgG1 at the C-terminus.

#### **Organism**

Mouse

#### **Expression Host**

**Human Cells** 

## **QC Testing**

#### **Activity**

- 1. Measured by its ability to bind biotinylated Human INHBA-his (Cat:10429-H08H) in functional ELISA.
- 2. Measured by its ability to bind biotinylated mouse INHBA-his (Cat:500709) in functional ELISA.
- 3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The  $ED_{50}$  for this effect is typically 10-50 ng/mL in the presence of 10 ng/mL recombinant Activin A.

#### **Purity**

> 97 % as determined by SDS-PAGE

## **Endotoxin**

< 1.0 EU per  $\mu g$  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 ACVR2B/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 364 amino acids and has a predicted molecular mass of 41 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rmACVR2B/Fc monomer is approximately 60-65 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

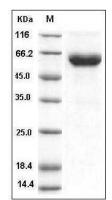
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**

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