

General Information

Gene Name Synonym

Activin receptor type IIB

Protein Construction

A DNA sequence encoding the N-terminal segment (Met 1-Thr 134) from the extracellular domain of human ACVR2B (NP_001097.2) was expressed with the fused human IgG1 Fc region at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED₅₀ for this effect is typically 0.02-0.1 µg/mL in the presence of 10 ng/mL recombinant Activin A.
2. Measured by its binding ability in a functional ELISA.
3. Immobilized human ACVR2B (Cat:503817) at 10 µg/mL (100 µl/well) can bind biotinylated human INHBA-His (Cat:10429-H08H), The EC₅₀ of biotinylated human INHBA-His (Cat:10429-H08H) is 0.112 µg/mL.
4. Immobilized human ACVR2B (Cat:503817) at 10 µg/mL (100 µl/well) can bind biotinylated mouse INHBA-His (Cat:Cat:500709), The EC₅₀ of biotinylated mouse INHBA-His (Cat:Cat:500709) is 0.161 µg/mL.

Purity

> 97 % 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 human ACVR2B/Fc chimera is a disulfide-linked homodimer generated after removal of the signal peptide. The reduced monomer comprises 354 amino acids and predicts a molecular mass of 40.0 kDa. As a result of glycosylation, the monomer migrates as an approximately 60-65 kDa protein in SDS-PAGE under reducing conditions.

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

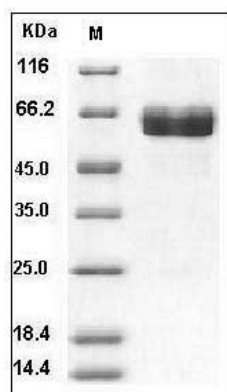
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

Human ACVR2B (Fc Tag) recombinant protein



Catalog Number: 503817



Human ACVR2B / ActivinR-IIB Protein (Fc Tag)
SDS-PAGE