

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 EC₅₀ 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 EC₅₀ of human Follistatin Protein is 0.39 µg/mL.

3. Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED₅₀ 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

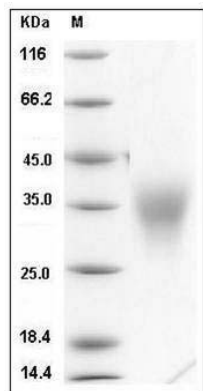
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

Mouse ACVR2B (His Tag) recombinant protein



Catalog Number: 503228



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