

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 ED₅₀ 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 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 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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