Mouse ACVR2A (His & Fc Tag) recombinant protein

Catalog Number: 502875

General Information

Protein Construction

A DNA sequence encoding the extracellular domain of mouse ACVR2A (NP_031422.3) (Met 1-Pro 134) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

Organism

Mouse

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED_{50} for this effect is typically 20-60 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℃

Predicted N terminal

Ala 20

Molecular Mass

The secreted recombinant mouse ACVR2A/Fc chimera is a disulfide-linked homodimer. The reduced monomer comprises 363 amino acids and has a calculated molecular mass of 41.4 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 55-65 kDa band 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

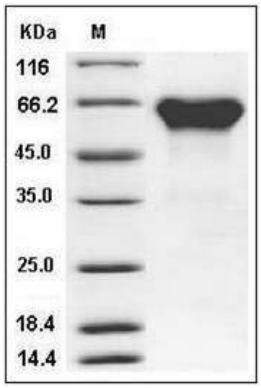
Storage

Store it under sterile conditions at -20℃ to -80℃. 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 ACVR2A / ActrIIa Protein (His & Fc Tag) SDS-PAGE