

Human ACVR2A (Fc Tag) recombinant protein



Catalog Number: 502084

General Information

Gene Name Synonym

Activin receptor type IIA

Protein Construction

A DNA sequence encoding the N-terminal segment (Met 1-Pro 134) from the extracellular domain of human ACVR2A (NP_001607.1) was fused with the Fc region of human IgG1 at the C-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED₅₀ for this effect is typically 10-40 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

Ala 20

Molecular Mass

The recombinant human ACVR2A/Fc chimera is a disulfide-linked homodimer protein generated after removal of the signal peptide. The monomer comprises 352 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

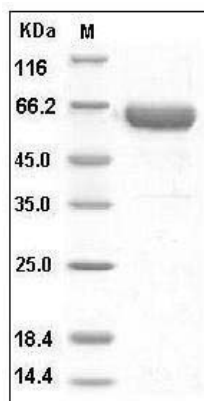
Storage

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 ACVR2 / ACTRII / ACVR2A Protein (Fc Tag) SDS-PAGE