

Mouse ALK-1 / ACVRL1 (His & Fc Tag) recombinant protein



Catalog Number: 501826

General Information

Gene Name Synonym

Activin receptor-like kinase 1; TGF-B superfamily receptor type I

Protein Construction

A DNA sequence encoding the mouse ALK1 (NP_033742.2) precursor (Met 1-Pro 119) 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 inhibit BMP9 induced alkaline phosphatase production by MC3T3E1 mouse chondrogenic cells. David, L. et al. (2007) Blood 109:1953.

The ED₅₀ for this effect is typically 60-300 ng/mL in the presence of 2 ng/mL of recombinant human BMP9.

Purity

> 95 % 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

Asp 23

Molecular Mass

The secreted recombinant mouse ALK1/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer comprises 345 amino acids with a predicted molecular mass of 39 kDa. As a result of glycosylation, it migrates as an approximately 50-55 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

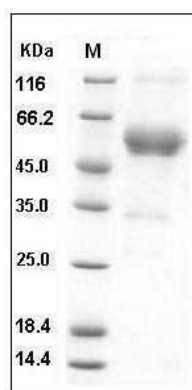
Storage

Store it under sterile conditions at -20°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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recombinant protein**



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SDS-PAGE