

# 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 ED<sub>50</sub> 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

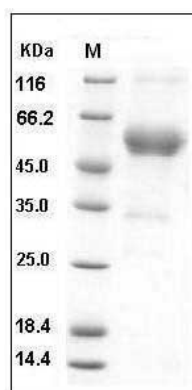
### Storage

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



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

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



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SDS-PAGE