

# Mouse ALK-3 / BMPR1A (His & Fc Tag) recombinant protein



Catalog Number: 504114

## General Information

### Gene Name Synonym

Activin receptor-like kinase 3; BMP-2/BMP-4 receptor; Serine/threonine-protein kinase receptor R5

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Arg 152) of mouse ALK3 (NP\_033888.2) precursor was fused with the Fc region of human IgG1 at the C-terminus.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit BMP4 induced activity in MC3T3-E1 Mouse osteoblastic cells. The ED<sub>50</sub> for this effect is typically 0.1-0.3 µg/ml in the presence of 50 ng/mL of recombinant human BMP4.

### 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

Gln 24

### Molecular Mass

The recombinant mouse ALK3/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 376 amino acids and has a predicted molecular mass of 42 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm ALK3/Fc monomer is approximately 60 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

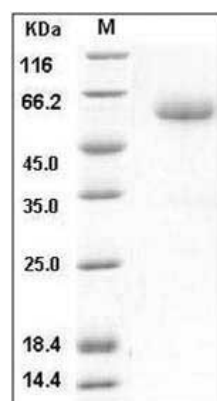
### Storage

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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SDS-PAGE