

# Human ALK-1 / ACVRL1 (His Tag) recombinant protein



Catalog Number: 503498

## General Information

### Gene Name Synonym

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

### Protein Construction

A DNA sequence encoding the the extracellular domain of human ALK1 (NP\_000011.2) (Met 1-Gln 118) was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### 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 50-200 ng/mL in the presence of 2 ng/mL of recombinant human BMP9.

### Purity

> 92 % 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 22

### Molecular Mass

The recombinant human ALK1 comprises 108 amino acids and has a predicted molecular mass of 12.3 kDa. As a result of glycosylation, rhALK1 migrates as an approximately 27 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

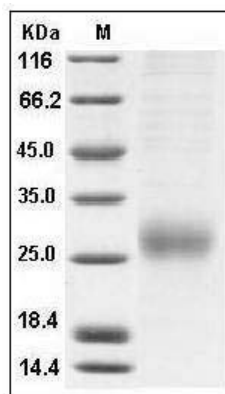
### Storage

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 ALK-1 / ACVRL1 Protein (His Tag) SDS-PAGE