

# Human ALK-4 / ACVR1B (His & Fc Tag) recombinant protein



Catalog Number: 502078

## General Information

### Gene Name Synonym

Activin receptor type IB; Activin receptor-like kinase 4; Serine/threonine-protein kinase receptor R2

### Protein Construction

A DNA sequence encoding the human ACVR1B (NP\_004293.1) extracellular domain (Met 1-Glu 126) was fused with C-terminal His-tagged Fc region of human IgG1 at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its binding ability in a functional ELISA. Immobilized human TDGF1 at 2 µg/ml (100 µl/well) can bind human ALK-4 with a linear range of 0.0068-0.16 µg/ml.

### Purity

> 80 % 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

Ser 24

## Molecular Mass

The recombinant human ALK4/Fc is a disulfide-linked homodimer. The reduced monomer consists of 351 amino acids and has a predicted molecular mass of 39.6 kDa. In SDS-PAGE under reducing conditions, rhALK4/Fc monomer migrates as an approximately 46 kDa band due to glycosylation, with ~15% free Fc fragment.

## 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

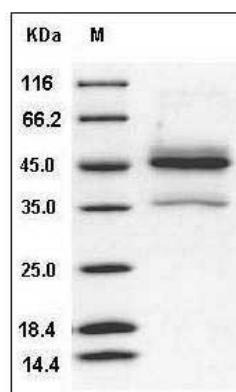
### Storage

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 ALK4 / ACVR1B Protein (His & Fc Tag)  
SDS-PAGE