

# Human ALK-3 / BMPR1A (His Tag) recombinant protein



Catalog Number: 504173

## General Information

### Gene Name Synonym

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

### Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Arg 152) of human ALK3 (NP\_004320.2) 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 rhBMP4-induced alkaline phosphatase production by MC3T3E1 mouse preosteoblast cells. The ED<sub>50</sub> for this effect is 2.5-10 µg/mL.

### Purity

> 85 % 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 secreted recombinant human ALK3 consists of 141 amino acids and has a predicted molecular mass of 15.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhALK3 is approximately 28-33 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

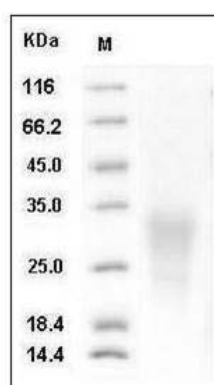
### Storage

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



Human BMPRIA / ALK-3 / CD292 Protein (His Tag)