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 polyhistide 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_{50} for this effect is typically 50-200 ng/mL in the presence of 2 ng/mL of recombiant 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℃

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

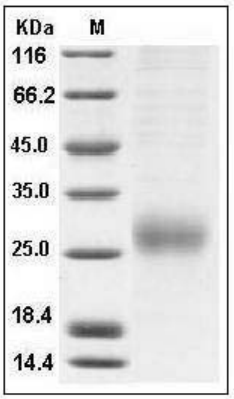
Storage

Store it under sterile conditions at -20℃ to -80℃. 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