# Human ALK-2 / ACVR1 (His & Fc Tag) recombinant protein

Catalog Number: 504188



#### **General Information**

## **Gene Name Synonym**

Activin receptor type I; Activin receptor-like kinase 2; Serine/threonine-protein kinase receptor R1; TGF-B superfamily receptor type I

#### **Protein Construction**

A DNA sequence encoding the extracellular domain (Met 1-Val 124) of human ALK2 (NP\_001104537.1) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

# **Organism**

Human

## **Expression Host**

**Human Cells** 

# **QC Testing**

## Activity

Measure by its ability to bind with human BMP2 in a functional ELISA.

#### **Purity**

> 95 % as determined by SDS-PAGE

#### **Endotoxin**

< 1.0 EU per  $\mu g$  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

Met 21

#### Molecular Mass

The recombinant human ALK2/Fc is a disulfidelinked homodimeric Protein after removal of the signal peptide. Each monomer consists of 352 amino acids and predicts a molecular mass of 39.6 kDa. As a result of glycosylation, the rh ALK2/Fc monomer migrates as approximately 40-45 kDa band 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**

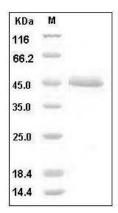
# **Storage**

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-2 / ACVR1 Protein (His & Fc Tag) SDS-PAGE