Mouse Endoglin/CD105 (His Tag) recombinant protein

Catalog Number: 502127

General Information

Protein Construction

A DNA sequence encoding the mouse CD105 (NP_031958.2) extracellular domain (Met 1-Gly 580) was expressed, with a C-terminal polyhistidine tag.

Organism

Mouse

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its ability to bind Human ENG-Fc (Cat:504243) in functional Elisa. 2. Measured by its ability to latent TGFB1-His (Cat:503624) in functional Elisa. 3. Measured by its ability to mouse ENG-His (Cat:502127) in functional Elisa. 4. 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 5-15 ng/mL in the presence of 2 ng/mL of recombiant human BMP9.

Purity

> 97 % 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 $^{\circ}\mathrm{C}$

Predicted N terminal

Arg 27

Molecular Mass

The secreted recombinant mouse CD105 consists of 565 amino acids and has a calculated molecular mass of 61.2 kDa. As a result of glycosylation, the apparent molecular mass of the recombinant protein is approximately 65-70 kDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.41. 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

| KDa | м |
|------|---|
| 116 | |
| 66.2 | |
| 45.0 | - |
| 35.0 | - |
| 25.0 | - |
| 18.4 | - |
| 14.4 | - |

Mouse Endoglin / CD105 / ENG Protein (His Tag) SDS-PAGE

