

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 ED₅₀ for this effect is typically 5-15 ng/mL in the presence of 2 ng/mL of recombinant 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°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 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

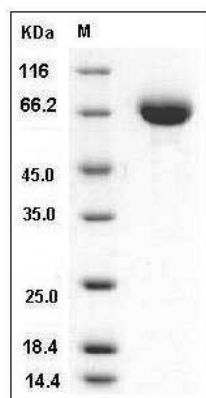
Storage

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



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