

# Recombinant Mouse Endoglin/ENG/CD105 Protein

Catalog No.: RP01912    Recombinant

## Sequence Information

**Species**    **Gene ID**    **Swiss Prot**  
 Mouse        13805        Q63961

### Tags

C-His

### Synonyms

Endoglin; Cell surface MJ7/18 antigen; CD105; Eng; Edg

## Background

ENG, Vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis. Required for normal structure and integrity of adult vasculature. Regulates the migration of vascular endothelial cells. Required for normal extraembryonic angiogenesis and for embryonic heart development. May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis. May play a role in the binding of endothelial cells to integrins. Acts as a TGF-beta coreceptor and is involved in the TGF-beta/BMP signaling cascade that ultimately leads to the activation of SMAD transcription factors. Required for GDF2/BMP9 signaling through SMAD1 in endothelial cells and modulates TGFB1 signaling through SMAD3.

## Product Information

**Source**                    **Purification**  
 HEK293 cells             $\geq 95\%$  as determined by SDS-PAGE.

**Calculated MW**    **Observed MW**  
 60.71 kDa            65-75 kDa

### Endotoxin

< 0.1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze/thaw cycles.

## Basic Information

### Description

Recombinant Mouse Endoglin/ENG/CD105 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu27-Gly581) of Mouse ENG (Accession #NP\_031958.2) fused with a His tag at the C-terminus.

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

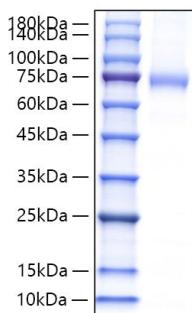
## Contact

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## Validation Data

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Recombinant Mouse Endoglin/ENG/CD105  
Protein was determined by SDS-PAGE under  
reducing conditions with Coomassie Blue.