

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

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm 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 free-thaw cycles.

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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.

Basic Information

Description

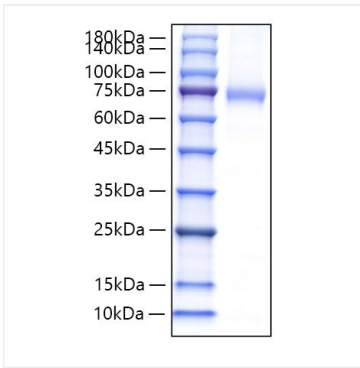
Recombinant Mouse Endoglin/ENG/CD105 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu27-Gly581) of Mouse ENG (Accession #NP_031958.2) fused with a His tag at the C-terminus.

Bio-Activity

Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. 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.

Validation Data



Recombinant Mouse ENG Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 65-75 kDa.