

Recombinant Mouse Endoglin/ENG/CD105 Protein

Catalog No.: RP01912

Sequence Information

Species	Gene ID
Mouse	13805
Swiss Prot	Tags
Q63961	C-Avi&6His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW Observed MW

60.71 kDa 65–75 kDa

Endotoxin

< 0.1 EU/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.

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-β coreceptor and is involved in the TGF-β/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 expression system. The target protein is expressed with sequence (Glu27–Gly581) fused with Avi&6His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

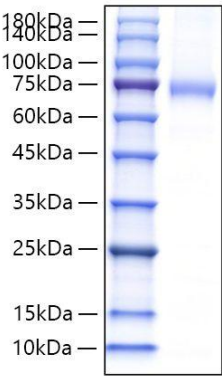
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Validation Data



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