

# Recombinant mouse Endoglin/CD105 protein

Catalog Number: ATGP3361

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

27-581aa

### UniProt No.

Q63961

### NCBI Accession No.

NP\_031958

### Alternative Names

A1528660, A1662476, CD105, Cell surface MJ7/18 antigen, Endo, Endoglin, Eng, ORW, ORW1, Osler-Rendu-Weber syndrome 1, S-endoglin

## PRODUCT SPECIFICATION

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### Molecular Weight

60.9 kDa (563aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its binding ability in a functional ELISA with Human TGF-beta RI (CAT# ATGP4134).

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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# Recombinant mouse Endoglin/CD105 protein

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## Description

Eng, also known as endoglin, is a type I homodimeric transmembrane glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively phosphorylated cytoplasmic tail. It is highly expressed on vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on activated monocytes, mesenchymal stem cells and leukemic cells of lymphoid and myeloid lineages. Recombinant mouse Eng, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

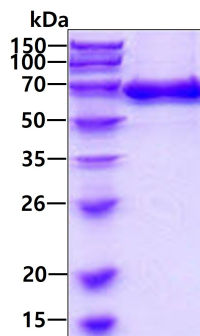
ERVGCDLQPV DPTRGEVTFT TSQVSEGCVA QAANAVREHV VLFLDFPGML SHLELTQAS KQNGTETQEV FLVLVSNKNV  
 FVKFQAPEIP LHLAYDSSLV IFQGQPRVNI TVLPSLTSRK QILDWAATKG AITSIALDD PQSIVLQLGQ DPKAPFLCLP  
 EAHKDMGATL EWQPRAQTPV QSCRLEGVSG HKEAYILRIL PGSEAGPRTV TVMMELSCST GDAILILHGP PYVSWFIDIN  
 HSMQILTTGE YSVKIFPGSK VKGVELPDTP QGLIAEARKL NASIVTSFVE LPLVSNVSLR ASSCGGVFQT TPAPVVTPP  
 KDTCSPVLLM SLIQPKCGNQ VMTLALNKKH VQTLQCTITG LTFWDSSCQA EDTDDHLVLS SAYSSCGMKV TAHVVSNEVI  
 ISFPGSPPL RKKVQCIDMD SLSFQLGLYL SPHFLQASNT IELGQQAFVQ VSVSPLTSEV TVQLDSCHLD LGPEGDMVEL  
 IQSRTAKGSC VTLLSPSPEG DPRFSFLLRV YMVPTPTAGT LSCNLALRPS TLSQEVYKTV SMRLNIVSPD LSGKG<LEHHH  
 HHH>

## General References

Ten Dijke P., et al. (2008) *Angiogenesis*. 11:79-89.  
 Bernabeu C., et al. (2007) *J Cell Biochem*. 102:1375-1388.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

## Biological Activity

# Recombinant mouse Endoglin/CD105 protein

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Mouse Endoglin (CAT# ATGP3361) is coated at 10 ug/ml (100 ul/well) can bind Human TGF-beta RI (CAT# ATGP4134) in a Functional ELISA assay.

