

Recombinant mouse Endoglin/CD105 protein

Catalog Number: ATGP3361

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

27-581aa

UniProt No.

Q63961

NCBI Accession No.

NP_031958

Alternative Names

AI528660, AI662476, CD105, Cell surface MJ7/18 antigen, Endo, Endoglin, Eng, ORW, ORW1, Osler-Rendu-Weber syndrome 1, S-endoglin

PRODUCT SPECIFICATION

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

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

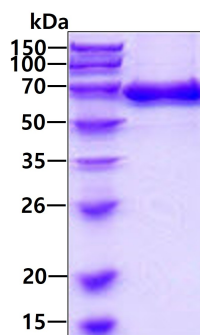
ERVGCDLQPV DPTRGEVTFT TSQVSEGCVA QAANAVREHV VLFLDFPGML SHLELTQAS KQNGTETQEV FLVLVSNNV
FVKFQAPEIP LHAYDSSLV IFQGQPRVNI TVLPSLTSRK QILDWAATKG AITSIAALDD PQSIVLQLGQ DPKAPFLCLP
EAHKDMGATL EWQPRAQTPV QSCRLEGVSG HKEAYILRIL PGSEAGPRTV TVMMELSCS GDAILILHGP PYVSWFIDIN
HSMQILTTGE YSVKIFPGSK VKGVELPDTP QGLIAEARKL NASIVTSFVE LPLVSNVSLR ASSCGGVFQT TPAPVVTTPP
KDTCSPLLLM SLIQPKCGNQ VMTLALNKKH VQTLQCTITG LTFWDSSCQA EDTDDHLVLS SAYSSCGMKV TAHVVSNEVI
ISFPGSPPL RKKVQCIDMD SLSFQLGLYL SPHFLQASNT IELGQQAQVQ 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.

