

Recombinant Human endoglin, His-tagged

Cat. No. ENG-428H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ENG, 26-586aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	26-586 a.a.
Description	ENG is a homodimeric transmembrane protein which is a major glycoprotein of the vascular endothelium. This protein is a component of the transforming growth factor beta receptor complex and it binds to the beta1 and beta3 peptides with high affinity. Mutations in this gene cause hereditary hemorrhagic telangiectasia, also known as Osler-Rendu-Weber syndrome 1, an autosomal dominant multisystemic vascular dysplasia. This gene may also be involved in preeclampsia and several types of cancer. Recombinant human ENG prtoein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	64.9 kDa (594aa)
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSETVH CDLQPVGPER DEVYTTTSQV SKGCVAQAPN AILEVHVLFL EFPTGPSQLE LTLQASKQNG TWPREVLLVL SVNSSVFLHL QALGIPLHLA YNSSLVTFQE PPGVNTELP

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SFPKTQILEW AAERGPITSA AELNDPQSIL LRLGQAQGS L SFCMLEASQD
 MGR TLEWRPR TPALVRGCHL EGVAGHKEAH ILRVLP GHSA GPRTVTVKVE
 LSCAPGDLDA VLILQGPPYV SWLIDANHNM QIWTTGEYSF KIFPEKNIRG
 FKLPDTPQGL LGEARMLNAS IVASFVELPL ASIVSLHASS CGRLQTSPA
 PIQTTPPKDT CSPPELLMSLI QTKCADDAMT LVLKKELVAH LKCTITGLTF
 WDPSCEAEDR GDKFVLRSAY SSCGMQVSAS MISNEAVVNI LSSSSPQRKK
 VHCLNMD SLS FQLGLYLSPH FLQASNTIEP GQQSFVQVRV SPSVSEFLLQ
 LDSCHLDLGP EGGTVELIQG RAAKGNCVSL LSPSPEG DPR FSFLLHFYTV
 PIPKTGTLSC TVALRPKTGS QDQEVHRTVF MRLNIISPDL SGCTSKG

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [ENG endoglin \[Homo sapiens \]](#)

Official Symbol ENG

Synonyms ENG; endoglin; ORW, ORW1, Osler Rendu Weber syndrome 1; CD105; END; HHT1; CD105 antigen; ORW; ORW1; FLJ41744;

Gene ID [2022](#)

mRNA Refseq [NM_000118](#)

Protein Refseq [NP_000109](#)

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MIM	131195
UniProt ID	P17813
Chromosome Location	9q34.11
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; TGF Beta Signaling Pathway, organism-specific biosystem; TGF-beta Receptor Signaling Pathway, organism-specific biosystem;
Function	activin binding; galactose binding; glycosaminoglycan binding; glycosaminoglycan binding; protein binding; contributes_to protein binding; protein homodimerization activity; protein homodimerization activity; transforming growth factor beta binding; trans

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