

Recombinant Human ENG, GST-tagged

Cat. No. ENG-12449H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ENG protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-49a.a.
Description	This gene encodes 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 TGFB1 and TGFB3 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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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
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