Recombinant Human Endoglin

Cat. No. ENG-4917H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ENG was expressed in Sf9 insect cells and purified by proprietary chromatographic techniques.
Species	Human
Source	Sf9 Cells
Description	ENG is a type I membrane glycoprotein located on cell surfaces and is part of the TGF beta receptor complex.The protein consists of a homodimer of 180 kDA with disulfide links. It has been found on endothelial cells, activated macrophages, fibroblasts, and smooth muscle cells. ENG has been found to be part of the TGF-beta1 receptor complex and may be involved in the binding of TGF-beta1, TGF-beta3, activin-A, BMP-2, and BMP-7. It has been postulated that endoglin is involved in the cytoskeletal organization affecting cell morphology and migration. ENG has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development.
Molecular Weight	90.0 kDa
Form	Lyophilized from PBS pH 7.4.
Appearance	Lyophilized protein
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in sterile PBS to a concentration ≥100 µg/ml. This solution can then be diluted into other aqueous buffers.

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Purity	≥95% by SDS-PAGE and HPLC analyses
Storage	The lyophilized is best-stored desiccated at -20°C. Reconstituted human IL-1RA should be stored at 4°C for 2-7days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid freeze/thaw cycles.
Pathways	HIF-1-alpha transcription factor network; TGF Beta Signaling Pathway; TGF-beta Receptor Signaling Pathway

GENE INFORMATION

Gene Name	ENG endoglin [Homo sapiens]
Official Symbol	ENG
Synonyms	ENG; endoglin; END; endoglin 1; CD105; CD105 antigen; CD_antigen=CD105; ORW; ORW1; FLJ41744; HHT1; Osler-Rendu-Weber syndrome 1; OTTHUMP00000022221
Gene ID	2022
mRNA Refseq	NM_000118
Protein Refseq	NP_000109
MIM	131195
UniProt ID	P17813
Chromosome	9q33-q34.1

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Location	
Function	activin binding; galactose binding; glycosaminoglycan binding; protein binding; contributes to protein binding; protein homodimerization activity; transforming growth factor beta receptor, cytoplasmic mediator activity; transmembrane receptor activity; type I transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding

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