

Recombinant Human Endoglin

Cat. No. ENG-132H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD105 extracellular domain produced in E.Coli is a single, glycosylated, Polypeptide containing 151 amino acids (26-176) and having a molecular mass of 43 kDa. The CD-105 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	26-176 a.a.
Description	Endoglin 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. Endoglin has been found to be part of the TGF-beta1 receptor complex. It thus may be involved in the binding of TGF-beta1, TGF-beta3, activin-A, BMP-2, and BMP-7. Beside TGF-beta signaling endoglin may have other functions. It has been postulated that endoglin is involved in the cytoskeletal organization affecting cell morphology and migration. Endoglin has a role in the development of the cardiovascular system and in vascular remodeling. Its expression is regulated during heart development. Experimental mice without the endoglin gene die due to cardiovascular abnormalities.
Physical Appearance	Sterile Filtered colorless liquid formulation.

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Purity	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	0.1 mg/ml in 50 mM Tris-Acetate, pH-7.5, 1 mM EDTA and 20% Glycerol.
Stability	Endoglin although stable at 15°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	ENG endoglin [Homo sapiens]
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 Location	9q33-q34.1
Function	ctivin binding; galactose binding; glycosaminoglycan binding; glycosaminoglycan binding; protein binding; contributes_to protein binding; protein homodimerization

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activity IEA transforming growth factor beta binding IEA transforming growth factor beta receptor, cytoplasmic mediator activity; transmembrane receptor activity; type I transforming growth factor beta receptor binding; type I transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding

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