

## Endoglin Human

**Description:**Endoglin Human Recombinant 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 Endoglin is purified by proprietary chromatographic techniques.

**Catalog #:**CYPS-532

**Synonyms:**CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin.

For research use only.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered colorless liquid formulation.

**Purity:**Greater than 90.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

Endoglin solution in 50mM Tris-Acetate, pH-7.5, 1mM 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Endoglin is a type I membrane glycoprotein located on cell surfaces and is part of the TGF beta receptor complex.The Endoglin protein consists of a homodimer of 180 kDA with disulfide links. Endoglin has been found on endothelial cells, activated macrophages, fibroblasts, and smooth muscle cells. Furthermore, Endoglin has been found to be part of the TGF-beta1 receptor complex. Endoglin 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. Endoglin expression is regulated during heart development . Experimental mice without the endoglin gene die due to cardiovascular abnormalities.

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