Endoglin, human recombinant (rHuEndoglin)

Catalog No: 95056
Lot No: XXXXX
Source: *E. coli*
Synonyms: CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin

Background

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.

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. Endoglin is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless liquid formulation.

Formulation

Endoglin solution 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.

Purity

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

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.