

Recombinant Human Endoglin (Endoglin Human)

Source: Insect Cells

Catalog No.: CYT-389

Introduction:

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.

Description:

CD105 Human Recombinant extracellular domain produced in baculovirus is a homodimeric, glycosylated, Polypeptide containing 586 amino acids and having a molecular mass of 61 kDa but as a result of glycosylation, migrates at 90 kDa under reducing conditions in SDS-PAGE.

The CD-105 is purified by proprietary chromatographic techniques.

Synonyms:

CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744.

Physical Appearance:

Sterile Filtered White Lyophilized (freeze-dried) powder.

Formulation:

Endoglin was lyophilized from a concentrated (1mg/ml) solution with no additives.

Solubility:

It is recommended to reconstitute the lyophilized CD-105 in sterile PBS not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized Endoglin although stable at room temperature for 3 weeks, should be stored desiccated below -18 °C. Upon reconstitution CD105 should be stored at 4 °C between 2-7 days and for future use 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 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Biological Activity:

Measured by its ability to bind with rhTGF-beta RII/Fc in a functional ELISA. Optimal dilutions should be determined by each laboratory for each application.

Usage:

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

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