

Endoglin Human Recombinant, Sf9

Catalogue Number	IY-389
Synonyms	CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin.
Introduction	<p>Endoglin is a type I membrane glycoprotein located on cell surfaces and is part of the TGF beta receptor complex.</p> <p>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.</p> <p>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.</p>
Patent Rights	The sale and/or commercial use of Recombinant Adiponectin is prohibited in the United States of America (U.S.A).
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 CD105 is fused to a C-terminal His-tag (6xHis) and purified by proprietary chromatographic techniques.
Source	Sf9 Insect Cells.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Endoglin was lyophilized from a concentrated (1mg/ml) sterile solution containing 1xPBS.
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	<p>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).</p> <p>Please prevent freeze-thaw cycles.</p>
Purity	<p>Greater than 95.0% as determined by:</p> <p>(a) Analysis by RP-HPLC.</p> <p>(b) Analysis by SDS-PAGE.</p>

Amino Acid Sequence	<p>MDRGTLPLAVALLASCSLSPTSLAETVHCDLQPVGPERGEVY TTSQVSKGCVAQAPNAILEVHVLFLFPTGPSQLELTQASKQNGTWPREVLLVL SVNSSVFLHLQALGIPLHLAYNSSLVTFQEPPGVNTELPSPFKTQILEWAAERGPI TSADELNDPQSILLRLGQAQGSLSFCMLEASQDMGRTLEWRPRTPALVRGCHLE GVAGHKEAHILRVLPGHSAGPRTVTVKVELSCAPGDLDVAVLILQGPYVSWLID ANHNMQIWTGGEYSFKIFPEKNIRGFKLPDTPQGLLGEARMLNASIVASFVELPL ASIVSLHASSCGGRLQTSPAPIQTTPPKDTCSPELLMSLIQTKCADDAMTLVLKKE LVAHLKCTITGLTFWDPSCEAEDRGDKFVLRSAVSSCGMQVSASMSNEAVVNI LSSSPQRKKVHCLNMDLSLQGLYLSPHFLQASNTIEPGQSFVQVRVSPSVSE FLLQLDSCHLDLGPPEGTVELIQGRAAKGNCVLLSPSPEGDRPFRSFLHFYTVPI PKTGTLSTVALRPKTGS.</p>
Biological Activity	<p>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.</p>
Usage	<p>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.</p>