

**Data Sheet** 

## Endoglin Mouse Recombinant

Catalogue Number	IY-424
Synonyms	CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Cell surface MJ7/18
	antigen, Endoglin.
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.
Patent Rights	The sale and/or commercial use of Recombinant Adiponectin is prohibited
	in the United States of America (U.S.A).
Description	CD105 Mouse Recombinant extracellular domain produced in baculovirus
	is a homodimeric, glycosylated, Polypeptide containing 581 amino acids
	and having a molecular mass of 61 kDa but as a result of glycosylation,
	migrates at 75-85 kDa under reducing conditions in SDS-PAGE. Based on N-
	terminal sequence analysis, the primary structure of recombinant mature
	Endoglin starts at Glu 26. The CD105 is fused to a C-terminal His-tag
	(6xHis) and purified by proprietary chromatographic techniques.
Source	Insect Cells.
Physical Appearence	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Endoglin was lyophilized from a concentrated (1mg/ml) sterile solution
	containing no additives.
Solubility	It is recommended to reconstitute the lyophilized CD-105 in sterile PBS
	not less than 100 $\mu$ g/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.

MDRGVLPLPITLLFVIYSFVPTTGLAERVGCDLQPVDPTRGEVT
FTTSQVSEGCVAQAANAVREVHVLFLDFPGMLSHLELTLQASKQNGTETQEVF
LVLVSNKNVFVKFQAPEIPLHLAYDSSLVIFQGQPRVNITVLPSLTSRKQILDWA
ATKGAITSIAALDDPQSIVLQLGQDPKAPFLCLPEAHKDMGATLEWQPRAQTP
VQSCRLEGVSGHKEAYILRILPGSEAGPRTVTVMMELSCTSGDAILILHGPPYVS
WFIDINHSMQILTTGEYSVKIFPGSKVKGVELPDTPQGLIAEARKLNASIVTSFV
ELPLVSNVSLRASSCGGVFQTTPAPVVTTPPKDTCSPVLLMSLIQPKCGNQVMT
LALNKKHVQTLQCTITGLTFWDSSCQAEDTDDHLVLSSAYSSCGMKVTAHVV
SNEVIISFPSGSPPLRKKVQCIDMDSLSFQLGLYLSPHFLQASNTIELGQQAFVQV
SVSPLTSEVTVQLDSCHLDLGPEGDMVELIQSRTAKGSCVTLLSPSPEGDPRFSF
LLRVYMVPTPTAGTLSCNLALRPSTLSQEVYKTVSMRLNIVSPDLS.
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.
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.