

## Human CD105 / Endoglin, soluble (InCs) His-Tag

Synonyms: Endoglin, END, ORW, HHT1, ORW1, CD105

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
5 µg	1260.952.005		
25 µg	1260.952.025		

Please enquire for bulk quantities and other vial sizes

### Description

A cDNA sequence encoding the extracellular domain of human Endoglin (Met 1 - Leu 586) was expressed in insect cells. Human Endoglin is a disulfide-linked homodimeric protein. According to N-terminal sequence analysis, the primary structure of recombinant mature Endoglin starts at Glu 26. Endoglin has a calculated monomeric molecular mass of 61 kDa but as a result of glycosylation, migrates at approximately 70 - 75 kDa under reducing conditions in SDS-PAGE. Endoglin, also known as CD105, is a Type I integral membrane glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively phosphorylated, cytoplasmic tail. Two splice variants of human Endoglin, the S-Endoglin and L-Endoglin that differ in the length of their cytoplasmic tails have been identified. Endoglin is highly expressed on vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on activated monocytes, bone marrow pro-erythroblasts, and leukemic cells of lymphoid and myeloid lineages. Human and mouse Endoglin share approximately 70% and 97 % amino acid sequence identity in their extracellular and intracellular domains, respectively. Endoglin has been shown to be a powerful marker of neovascularization. It is also useful as a functional marker that defines long-term repopulating hematopoietic stem cells.

- **Source** Insect cells
- **Purity** ≥ 90 % (SDS-PAGE, silver stained)

### Biological Activity

Testing in Progress.

### Reconstitution

The lyophilized sCD105 is soluble in water and most aqueous buffers and should be reconstituted in PBS or medium to a concentration not lower than 50µg/ml.

### Amino Acid Sequence

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ETVHCDLQPV GPERGEVTTYT TSQVSKGCVA QAPNAILEVH VLFLEFPTGP SQLELTLQAS KQNGTWPREV
LLVLSVNSSV FLHLQALGIP LHLAYNSSLV TFQEPGVT TELPSFPKTQ ILEWAAERGP ITSAAELNDP
QSILLRLGQA QGSLSFCEML ASQDMGRTLE WRPRTPALVR GCHLEGVAGH KEAHILRVLP GHSAGPRTVT
VKVELSCAPG DLDAVLILQG PPYVSWLIDA NHNMQIWTG EYSFKIFPEK NIRGFKLPTD PQGLLGEARM
LNASIVASFV ELPLASIVSL HASSCGRLQ TSPAPIQTTP PKDTCPELL MSLIQTKCAD DAMTLVLKKE
LV AHLKCTIT GLTFWDPSCE AEDRGDKFVL RSAYSSCGMQ VSASMISNEA VVNILSSSSP QRKKVHCLNM
DSL SFQLGLY LSPHFLQASN TIEPGQSFV QVRVSPVSE FLLQLDSCHL DLGPEGGTV LIQGRAAKGN
CVSLLSPSPE GDRPFSFLLH FYTVPIPKTG TLSCTVALRP KTGSQDQEVH RTVFMRLNII SPDLSGCTSH
HHHHH

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**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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