

CD105/Endoglin, soluble Active Protein | CD105/Endoglin active protein

Human CD105/Endoglin, soluble

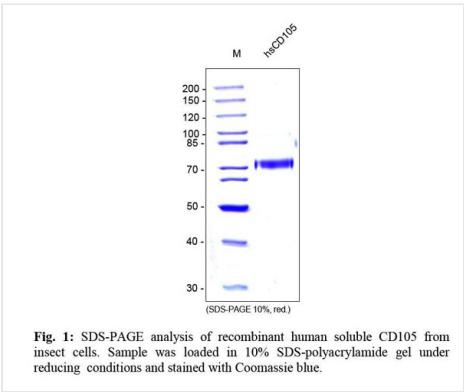
CATALOG # AAA79306	HOST Insect Cells	REACTIVITY Human
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PRODUCT SYNONYMS

CD105/Endoglin; soluble; Human CD105/Endoglin; Recombinant Human Soluble CD105/Endoglin; Bone morphogenetic protein receptor type-1A; Activin receptor-like kinase 3; CD292; CD105/Endoglin active protein

PRODUCT SPECIFICATIONS

Host	Insect Cells
Reactivity	Human
Purity/Purification	> 90% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	ETVHCDLQPV GPERGEVTTYT TSQVSKGCVA QAPNAILEVH VLFLEFPTGP SQLELTQAS KQNGTWPREV LLVLSVNSSV FLHLQALGIP LHLAYNSSLV TFQEPPGVNT TELPSFPKTQ ILEWAAERGP ITSAAELNDP QSILLRLGQA QGSLSFCMLE ASQDMGRTLW RRPRTPALVR GCHLEGVAGH KEAHILRVLP GHSAGPRTVT VKVELSCAPG DLDAVLILQG PPYVSWLIDA NHNMQIWTG EYSFKIFPEK NIRGFKL PDT PQGLLGEARM LNASIVASFV ELPLASIVSL HASSCGGRLQ TSPAPIQTTP PKDTCSPELL MSLIQTCKAD DAMTLVLKKE LVAHLKCTIT GLTFWDPSCE AEDRGDKFVL RSAYSSCGMQ VSASMISNEA VVNILSSSSP QRKKVHCLNM DSLSFQLGLY LSPHFLQASN TIEPGQQSFV QVRVSPSVSE FLLQLDSCHL DLGPEGGTVE LIQGAAKGN CVSLLSPSPE GDPRFSFLLH FYTVPIPKTG TLSCTVALRP KTGSQDQEVH RTVFMRLNII SPDLSGCTSH HHHHH
Sequence Length	565
Gene	BMPR1A
Stabilizer	None
Reconstitution	The lyophilized s CD105 is soluble in water and most aqueous buffers. The lyophilized s CD105 should be reconstituted in PBS or medium to a concentration not lower than 50ug/ml
Buffer	PBS
Biological Activity	Not tested so far
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20 degree C to -70 degree C. Reconstituted sCD105 should be stored in working aliquots at -20 degree C. Avoid freeze/thaw cycles.



Application Data

ADDITIONAL INFORMATION

Related Product Information for CD105/Endoglin active protein	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.
Product Categories/Family for CD105/Endoglin active protein	Soluble receptors
References	1. Cheifetz et al., J Biol Chem 267:19027, 1992 2. Parker et al., J Bone Miner Res 18:289, 2003 3. Barbara et al., J Biol Chem 274:584, 1999 4. Arthur et al., Dev Biol 217:42, 2000 5. McAllister et al., Nature Genet 8:345, 1994 6. Fonsatti et al., J Cell Physiol 188:1, 2001].

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557555
NCBI GeneID	2022
NCBI Accession #	NP_000109
NCBI GenBank Nucleotide #	NM_000118
UniProt Accession #	P17813; Q14248; Q14926; Q5T9C0
Molecular Weight	70 - 75 kDa (Monomer)
NCBI Official Full Name	endoglin isoform 2
NCBI Official Synonym Full Names	endoglin
NCBI Official Symbol	ENG
NCBI Official Synonym Symbols	END; HHT1; ORW1
NCBI Protein Information	endoglin; CD105 antigen
UniProt Protein Name	Endoglin

UniProt Gene Name	ENG
UniProt Synonym Gene Names	END
UniProt Entry Name	EGLN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/insect-human-active-protein/cd105-endoglin-soluble/79306>