

Recombinant Human Endoglin

CATALOG #:	4530-10	10 µg
	4530-100	100 µg
LOT #:		
SYNONYMS:	CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin	
SOURCE:	Sf9 Insect Cells	
PURITY:	> 95 % by SDS-PAGE and RP-HPLC	
FORM:	Lyophilized from PBS pH 7.4.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile PBS to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted human IL-1RA should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

DESCRIPTION:

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. 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. 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.

AMINO ACID SEQUENCE:

MDRGTLPLAVALLASCSLSPTSLAETVHCDLQPVGPERGEVTTYTTSQVSKGCVAQAPNAILE
VHVLFLFPTGPGSQLELTQASKQNGTWPREVLLVLSVNSSVFLHLQALGIPLHLAYNSSLVTF
QEPPGVNTTLPSPFKTQILEWAAERGPITSAELNDPQSILLRLGQAQGSLSFCMLEASQDM
GRTLEWRPRTPALVRGCHLEGVAGHKEAHILRVLPGHSAGPRTVTVKVELSCAPGDLDAVLIL
QGPPYVSWLIDANHNMQIWTTEGEYSFKIFPEKNIRGFKLPDTPQGLLGEARMLNASIVASFVEL
PLASIVSLHASSCGRLQTSPAPIQTTPPKDTCSPELLMSLIQTKCADDAMTLVLKKELVHLKLC
TITGLTFWDPSCEAEDRGDKFVLRSAVSSCGMQVSASMISNEAVVNILSSSSPQRKKVHCLNM
DSLSFQLGLYLSPHFLQASNTIEPGQQSFVQVRVSPSVSEFLLQLDSCHLDLGPPEGTVELIQ
GRAAKGNCVSLSPSPGDPFRFSFLHFYTVPI PKTGTLSCTVALRPKTGS.

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