

Recombinant Mouse Endoglin

CATALOG #:	4531-10	10 µg
	4531-100	100 µg
LOT #:	_____	
SYNONYMS:	CD105, ENG, END, ORW, HHT1, ORW1, FLJ41744, Endoglin	
SOURCE:	<i>Sf9 Insect Cells</i>	
PURITY:	> 95 % by SDS-PAGE and RP-HPLC	
FORM:	Lyophilized from sterile solution without additives	

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 and 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 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.

AMINO ACID SEQUENCE:

MDRGVLPITLLFVIYSFVPTTGLAERVGCDLQVPDPTRGEVFTTTSQVSEGCVAQAANAVREVHVLFLDFP
GMLSHLELTQASKQNGTETQEVLVLSNKNVFKFQAPEIPLHLAYDSSLVIFQGGPRVNITVPLSLTSRK
QILDWAATKGAITSIAALDDPQSVLQLGQDPKAPFLCLPEAHKDMGATLEWQPRAPQTPVQSCRLEGVSGHK
EAYILRILPGSEAGPRTVTVMELSCSTSGDAILLHGPPYVSWFIDINHSMQILTTGEYSVKIFPGSKVKGVLEP
DTPQGLIAEARLNASIVTSFVELPLVSNVSLRASSCGGVFQTTAPVVTTPPKDTCSPVLLMSLIQPKCGNQ
VMTLALNKKHVQTLQCTITGLTFWDSSCAEDTDDHLVLSAYSSCGMKVTAHVVSNEVIISFSPGSPPLRK
KVQCIDMDSLFSQLGLYLSPHFLQASNTIELGQAFVQVSVSPLTSEVTVQLDSCHLDLGPEDGMVELIQSRT
AKGSCVTLSPSPGDPFRFSLLRVYVMPPTAGTSLCNLALRPSTLSQEYVKTVMRLNIVSPDLS

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