

Biotinylated Human Endoglin/CD105 Protein



Cat. No. EDG-HM401B

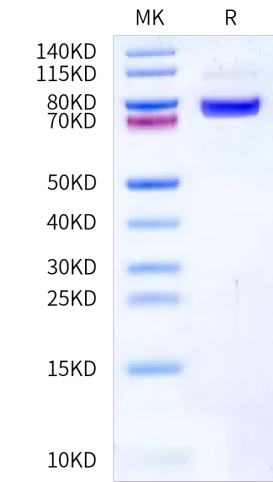
Description	
Source	Recombinant Biotinylated Human Endoglin/CD105 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Glu26-Gly586.
Accession	P17813-1
Molecular Weight	The protein has a predicted MW of 63.7 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Endoglin (CD105) is a 90 kDa type I transmembrane glycoprotein of the zona pellucida (ZP) family of proteins. Endoglin is a vascular endothelium glycoprotein that plays an important role in the regulation of angiogenesis. Required for normal structure and integrity of adult vasculature (PubMed:7894484). Regulates the migration of vascular endothelial cells. Required for normal extraembryonic angiogenesis and for embryonic heart development. May regulate endothelial cell shape changes in response to blood flow, which drive vascular remodeling and establishment of normal vascular morphology during angiogenesis.	

Assay Data

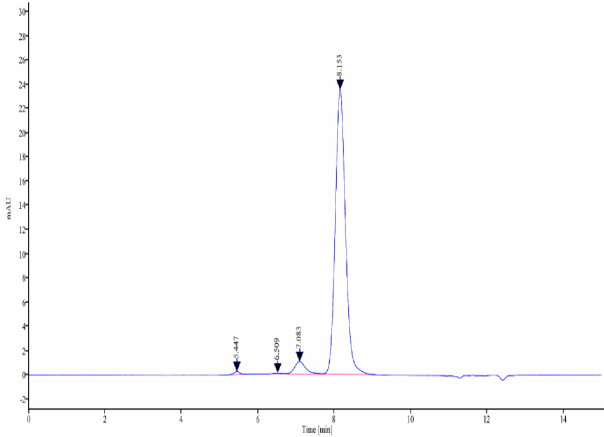
Bis-Tris PAGE



Biotinylated Human Endoglin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

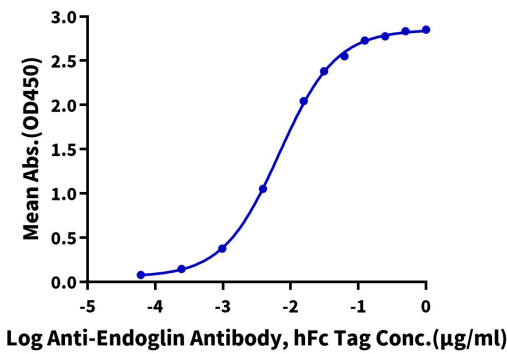


The purity of Biotinylated Human Endoglin is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human Endoglin, His Avi Tag ELISA
0.05µg Biotinylated Human Endoglin, His Avi Tag Per Well



Immobilized Biotinylated Human Endoglin, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-Endoglin Antibody, hFc Tag with the EC50 of 6.8ng/ml determined by ELISA.