Recombinant Human ENG Protein, C-hFc-tagged

Product Information

Cat	*IMP-4428*
Official Symbol	*ENG*
Product Overview	*Recombinant extracellular domain (Met 1-Gly 586) of human CD105 (NP_001108225.1) precursor was expressed with C-terminal fused human IgG1 Fc region.*
Description	*Endoglin, also known as CD105, is a type I homodimeric transmembrane glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively phosphorylated cytoplasmic tail. Endoglin contains an RGD tripeptide which is a key recognition structure in cellular adhesion, suggesting a critical role for endoglin in the binding of endothelial cells to integrins and/or other RGD receptors. Endoglin is highly expressed on vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on activated monocytes, mesenchymal stem cells and leukemic cells of lymphoid and myeloid lineages. As an accessory receptor for the TGF-β superfamily ligands, endoglin binds TGF-β1 and TGF-β3 with high affinity not by itself but by associating with TGF-β type II receptor (TβRII) and activates the downstream signal pathways. In addition, in human umbilical vein endothelial cells, ALK-1 is also a receptor kinase for endoglin threonine phosphorylation, and mutations in either of the two genes result in the autosomal-dominant vascular dysplasia, hereditary hemorrhagic telangiectasia (HHT). Endoglin has been regarded as a powerful biomarker of neovascularization, and is associated with several solid tumor types.*
Expression System	*HEK293*
Species	*Human*
Tag	*C-hFc*
Predicted N Terminal	*Glu 26*
Form	*Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.*
Molecular Mass	*The recombinant human CD105/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 799 amino acids and has a predicted molecular mass of 87.5 kDa. As a result of glycosylation, rhCD105/Fc monomer migrates as an approximately 115-120 kDa protein in SDS-PAGE under reducing conditions.*
Protein length	*Met1-Gly586*
Endotoxin	*< 1.0 EU/μg of the protein as determined by the LAL method*

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Purity

> 95 % as determined by SDS-PAGE

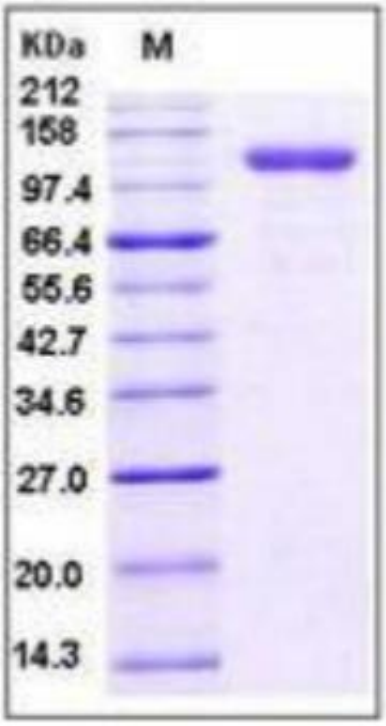
Storage

Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

SDS-PAGE



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