

Endoglin Protein, Human, Recombinant (Trx & His)

General Information

Synonyms:	CD105;END;Endoglin;ENG
Protein Construction:	Glu26-Gln176(Gly40Asp)
Species:	Human
Expression Host:	E. coli
Accession:	P17813
Molecular Weight:	34 KDa (reducing condition)
AA Sequence:	Glu26-Gln176(Gly40Asp)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Endoglin is a single-pass type I membrane protein which restricted to endothelial cells in all tissues except bone marrow. Endoglin as major glycoprotein of vascular endothelium, it has been found on endothelial cells, activated macrophages, fibroblasts, and smooth muscle cells. Furthermore, Homodimer forms a heteromeric complex with the signaling receptors for transforming growth factor-beta: TGFBR1 and/or TGFBR2. It may have an important role in the binding of endothelial cells to integrins and/or other RGD receptors. Defects in ENG are the cause of hereditary hemorrhagic telangiectasia type 1 (HHT1), which is an autosomal dominant multisystemic vascular dysplasia, characterized by recurrent epistaxis, muco-cutaneous telangiectases, gastro-intestinal hemorrhage, and pulmonary (PAVM), cerebral (CAVM) and hepatic arteriovenous malformations.

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