

Synonym

ANGPTL3,ANGPT5,ANG-5,Angiopoietin-5,FHBL2

Source

Human Angiopoietin-like 3 Protein, Fc Tag(AN3-H5253) is expressed from human 293 cells (HEK293). It contains AA Ser 17 - Glu 460 (Accession # [Q9Y5C1-1](#)).
Predicted N-terminus: Ser 17

Molecular Characterization

| | |
|---------------------------------------|---------------------------------|
| ANGPTL3(Ser 17 - Glu 460) Q9Y5C1-1 | Fc(Pro 100 - Lys 330) P01857 |
|---------------------------------------|---------------------------------|

This protein carries a human IgG1 Fc tag at the C-terminus.
The protein has a calculated MW of 78.2 kDa. The protein migrates as 65 kDa and 100-115 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, 0.05% CHAPS, pH7.5 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

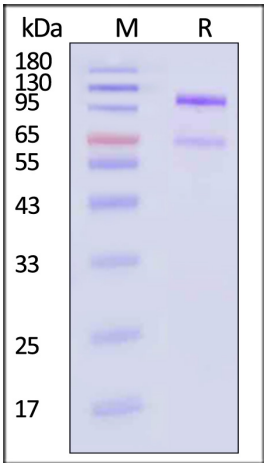
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

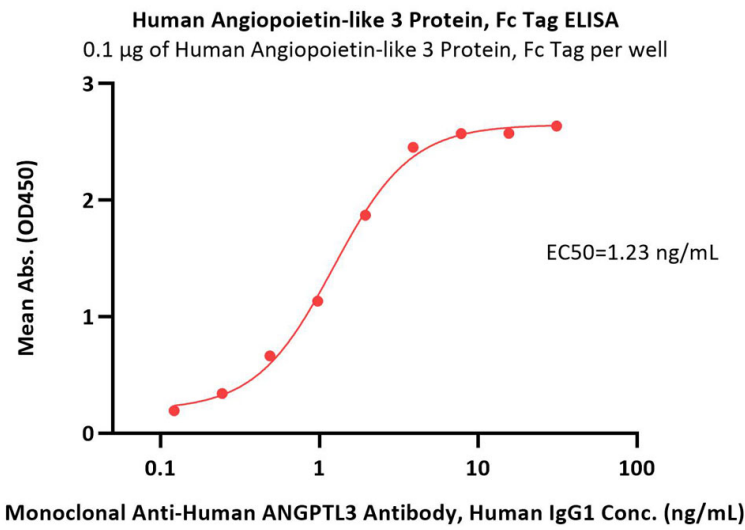
SDS-PAGE



Human Angiopoietin-like 3 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA





Immobilized Human Angiopoietin-like 3 Protein, Fc Tag (Cat. No. AN3-H5253) at 1 μ g/mL (100 μ L/well) can bind Monoclonal Anti-Human ANGPTL3 Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL (QC tested).

Background

Angiopoietin-like protein 3 (ANGPTL3) is also known as Angiopoietin-related protein 3, Angiopoietin-5 (ANGPT5 / ANG-5), is a member of the angiopoietin-like family of secreted factors. ANGPTL3 / ANGPT5 is predominantly expressed in the liver, and has the characteristic structure of angiopoietins, consisting of a signal peptide, N-terminal coiled-coil domain and the C-terminal fibrinogen (FBN)-like domain. The FBN-like domain in angiopoietin-like 3 protein was shown to bind α -5/ β -3 integrins, and this binding induced endothelial cell adhesion and migration. This protein may also play a role in the regulation of angiogenesis. Angptl3 also acts as dual inhibitor of lipoprotein lipase (LPL) and endothelial lipase (EL), and increases plasma triglyceride and HDL cholesterol in rodents. ANGPTL3 inhibit endothelial lipase to catalyze HDL-phospholipid and increase HDL-PL levels. Circulating PL-riched HDL particles have high cholesterol efflux abilities.

