



Synonym

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

Source

Human Angiopoietin-like 3, His Tag(AN3-H52H3) 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) | Poly-his |
| Q9Y5C1-1 | |

This protein carries a polyhistidine tag at the C-terminus. This protein contains a furin-like convertase cleavage site, 221-RAPR-224, and will be partially processed into N and C-terminal fragment with calculated MW of 24.3 kDa and 29.4 kDa respectively. The protein migrates as 55-70 kDa (full length), 31-33 kDa (C-terminal fragment) 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 μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, 0.05% CHAPS, pH7.4 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

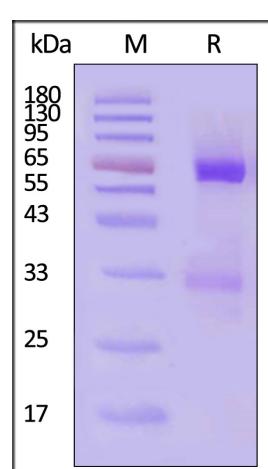
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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



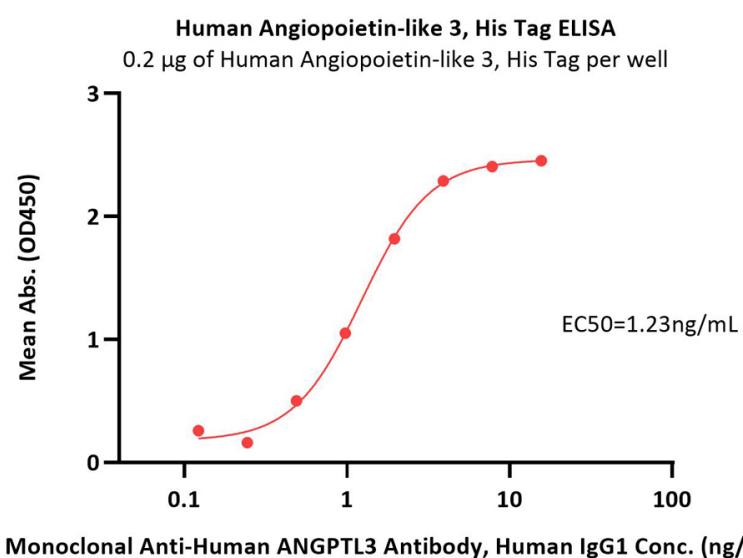
Human Angiopoietin-like 3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

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Immobilized Human Angiopoietin-like 3, His Tag (Cat. No. AN3-H52H3) at 2 μ g/mL (100 μ L/well) can bind Monoclonal Anti-Human ANGPTL3 Antibody, Human IgG1 with a linear range of 0.5-2 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 alpha-5/beta-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.

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