

Human ANGPTL3/Angiopoietin-like 3 Protein

Cat. No. ANG-HM103

Description

Source	Recombinant Human ANGPTL3/Angiopoietin-like 3 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ser17-Glu460.
Accession	Q9Y5C1
Molecular Weight	The protein has a predicted MW of 52.90 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 90% as determined by HPLC

Formulation and Storage

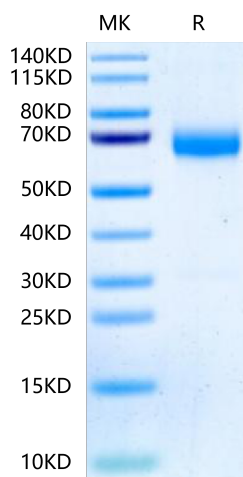
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

ANGPTL3 is a secreted glycoprotein that is structurally related to the angiopoietins. Mature human ANGPTL3 contains an N-terminal coiled coil domain and a C-terminal fibrinogen-like domain. ANGPTL3 is expressed in the liver from early in development through adulthood. Acts in part as a hepatokine that is involved in regulation of lipid and glucose metabolism. Proposed to play a role in the trafficking of energy substrates to either storage or oxidative tissues in response to food intake.

Assay Data

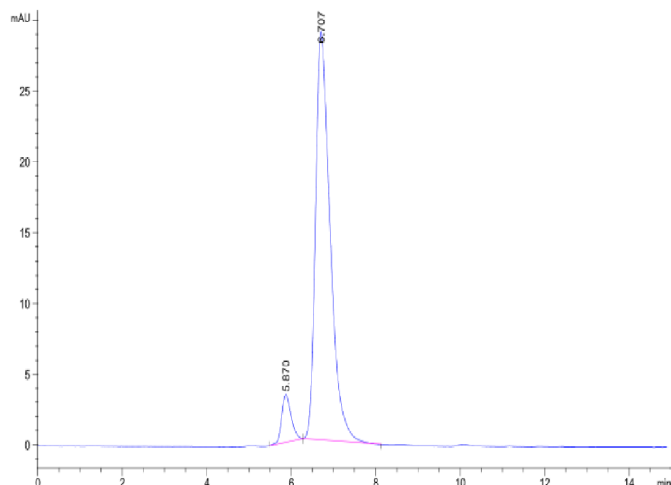
Tris-Bis PAGE



Human ANGPTL3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

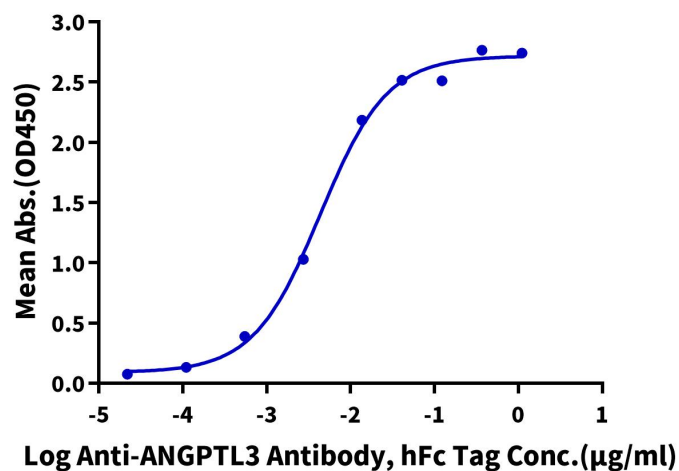


The purity of Human ANGPTL3 is greater than 90% as determined by SEC-HPLC.

ELISA Data

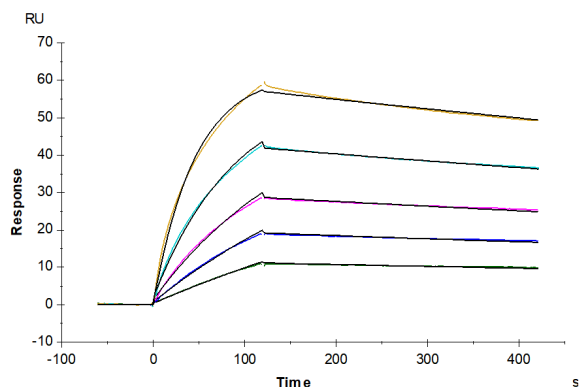
Human ANGPTL3, His Tag ELISA

0.05µg Human ANGPTL3, His Tag Per Well



Immobilized Human ANGPTL3, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-ANGPTL3 Antibody, hFc Tag with the EC50 of 4.4ng/ml determined by ELISA (QC Test).

SPR Data



Human ANGPTL3, His Tag immobilized on CM5 Chip can bind Anti-ANGPTL3 Antibody, hFc Tag with an affinity constant of 0.56 nM as determined in SPR assay (Biacore T200).