

## ANGPTL3 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	ANGPTL3;FHBL2;ANGPT5;Angiopoietin-5;ANL3;ANG-5;Angiopoietin-like Protein 3
Protein Construction:	Ser17-Lys219
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9Y5C1
Molecular Weight:	26.6 kDa (predicted). Due to glycosylation, the protein migrates to 30-38 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Anti-ANGPTL3 Antibody, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human ANGPTL3, His Tag with the EC50 of 5.0ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

Reference

Oike Y, et al. Angiotensin-like proteins: potential new targets for metabolic syndrome therapy[J]. Trends in Molecular Medicine, 2005, 11(10):473-479.

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