

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

### General Information

Synonyms:	FHBL2;Angiopoietin-like Protein 3;ANG-5;ANGPTL3;ANGPT5;Angiopoietin-5;ANL3
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:	<ol style="list-style-type: none"><li>1. Immobilized Human ANGPTL3, His Tag at 0.5µg/ml (100µl/Well). Dose response curve for Anti-ANGPTL3 Antibody, hFc Tag with the EC50 of 8.2ng/ml determined by ELISA.</li><li>2. Human LILRB2 captured on Protein A chip, can bind Human ANGPTL3, His Tag with an affinity constant of 17.6nM as determined in a SPR assay.</li></ol>
Purity:	> 95% as determined by Tris-Bis PAGE
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. Angiopoietin-like proteins: potential new targets for metabolic syndrome therapy[J]. Trends in Molecular Medicine, 2005, 11(10):473-479.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481