



Synonym

ANGPTL7,CDT6

Source

Biotinylated Human ANGPTL7, Mouse IgG2a Fc,Avitag(AN7-H82F3) is expressed from human 293 cells (HEK293). It contains AA Gln 27 - Pro 346 (Accession # [O43827-1](#)).

Predicted N-terminus: Gln 27

Molecular Characterization

ANGPTL7(Gln 27 - Pro 346) O43827-1	mFc(Glu 98 - Lys 330) P01863	Avi
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This protein carries a mouse IgG2a Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 65.8 kDa. The protein migrates as 60 kDa and 70 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, 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

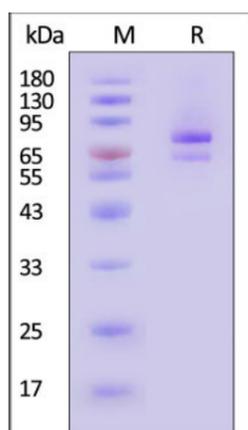
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

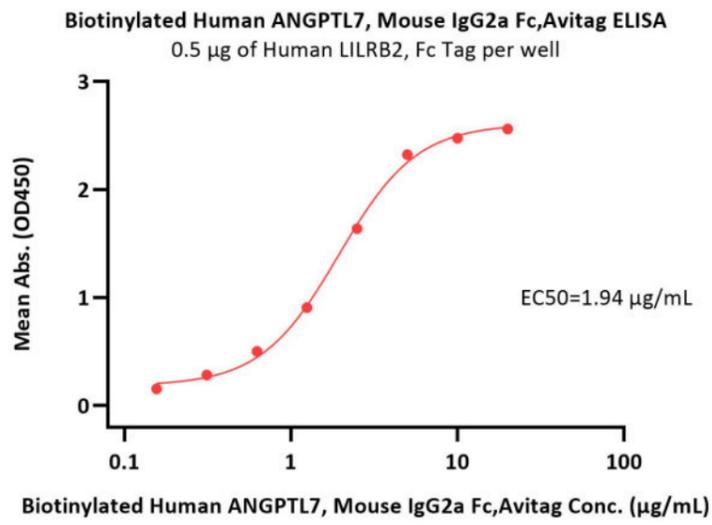


Biotinylated Human ANGPTL7, Mouse IgG2a Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

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Immobilized Human LILRB2, Fc Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human ANGPTL7, Mouse IgG2a Fc,Avitag (Cat. No. AN7-H82F3) with a linear range of 0.156-2.5 µg/mL (QC tested).

Background

Angiopoietin-like 7 (ANGPTL7) is also known as Corneal-Derived Transcript 6 (CDT6), and is a secreted glycoprotein that is structurally related to the angiopoietins. It is expressed in the corneal stroma, trabecular meshwork, and sclera and is elevated in glaucoma aqueous humor. Recently, ANGPTL proteins, including ANGPTL-2, -3, -4, -5 and -7, are identified as growth factors in combination with SCF, Thrombopoietin, IGF-II and FGF acidic that enhance the expansion and engraftment of human and mouse hematopoietic stem cells.

Clinical and Translational Updates

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