

RP00206

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Recombinant Human Angiopoietin-like 7/ANGPTL7 Protein

Catalog No.: RP00206

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	10218	O43827

Tags

C-His

Synonyms

ANGPTL7;AngX;CDT6;dj647M16.1

Background

Angiopoietin-like 7 (ANGPTL7), also known as Corneal-Derived Transcript 6 (CDT6), is a secreted glycoprotein that is structurally related to the angiopoietins. ANGPTL7 is expressed in the corneal stroma, trabecular meshwork, and sclera and is elevated in glaucoma aqueous humor. Its production is up regulated in trabecular meshwork cells by glucocorticoids and TGF-beta and in cartilage by TNF-alpha. Overexpression of ANGPTL7 in trabecular meshwork cells inhibits the production of collagen and proteoglycans. When overexpressed in tumor cells it promotes collagen and proteoglycan deposition but inhibits tumor xenograft progression and tumor angiogenesis.

Basic Information

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Description

Recombinant Human Angiopoietin-like 7/ANGPTL7 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln27-Pro346) of human Angiopoietin-like 7 (Accession #NP_066969.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human ANGPTL7 at 5 μg/mL (100 μL/well) can bind Recombinant Human LILRB4 with a linear range of 0.5-3.5 μg/mL.

Storage

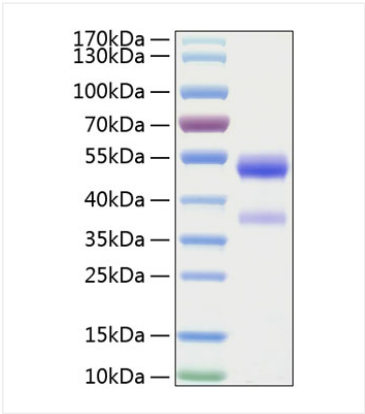
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

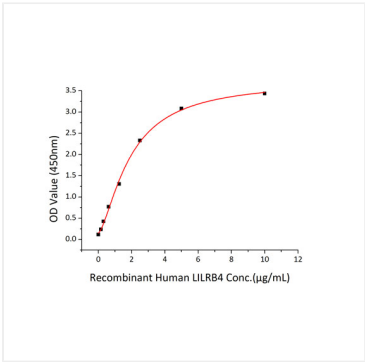


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Validation Data



Recombinant Human Angiopoietin-like 7/ANGPTL7 Protein was determined by SDS-PAGE with Coomassie Blue, showing two bands at 37-38,45-50kDa.



Immobilized Recombinant Human ANGPTL7 at 5µg/mL (100 µL/well) can bind Recombinant Human LILRB4 with a linear range of 0.5-3.5 µg/mL.