

Recombinant Human Angiopoietin-like 7/ANGPTL7(27-346) Protein

Catalog No.: RP00206 **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 10218 | O43827 |

Tags

C-His

Synonyms

ANGPTL7;AngX;CDT6;dj647M16.1

Product Information

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

| Calculated MW | Observed MW |
|---------------|---------------|
| 37.90 kDa | 38, 50-55 kDa |

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 free-thaw cycles.

Contact

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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

Description

Recombinant Human Angiopoietin-like 7/ANGPTL7(27-346) 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 6xHis 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.

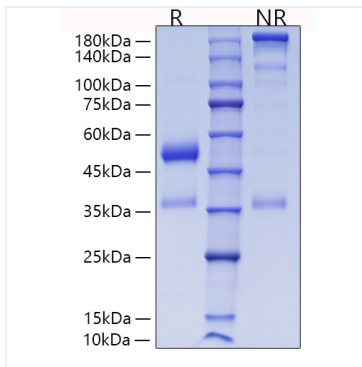
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

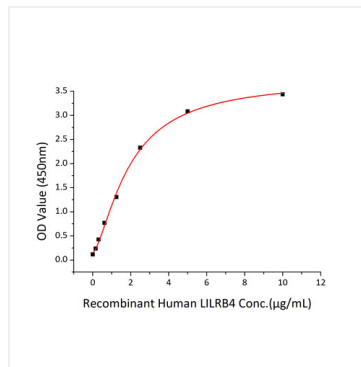
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Angiopoietin-like 7/ANGPTL7 Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions, showing single bands at 50-55 kDa and 200-220 kDa, respectively.



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.