

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

Catalog No.: RP00206 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 10218 043827

Tags C-His

Synonyms

ANGPTL7;AngX;CDT6;dJ647M16.1

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

37.90 kDa 38, 50-55 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ 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 stablizer (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 6×His tag at the C-terminus.

Bio-Activity

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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

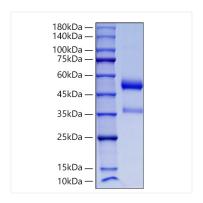
Avoid repeated freeze/thaw cycles.

Operational Notes

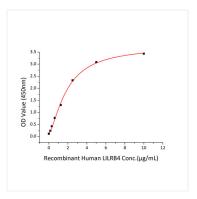
For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



Recombinant Human Angiopoietin-like 7/ANGPTL7(27-346) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human ANGPTL7 at $5\mu g/mL$ ($100~\mu L/well$) can bind Recombinant Human LILRB4 with a linear range of 0.5- $3.5~\mu g/mL$.