

Active Recombinant Human ANGPTL7 Protein, His-tagged, Biotinylated

Cat. No. ANGPTL7-161H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ANGPTL7(Gln27-Pro346) fused with His tag at C-terminal was expressed in CHO, Biotinylated.
Species	Human
Source	CHO
ProteinLength	Gln27-Pro346
Description	Angiopoietin-like 7 (ANGPTL7), also known as Corneal-Derived Transcript 6 (CDT6), is a secreted glycoprotein that is structurally related to the angiopoietins. Members of this protein family contain an N-terminal coiled coil domain and a C-terminal fibrinogen-like domain. ANGPTL7 shares 89% aa sequence identity with mouse and rat ANGPTL7. It is secreted as a 45-50 kDa monomer that forms disulfide-linked homotrimers and tetramers via the coiled coil domain. 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. Over-expression of ANGPTL7 in trabecular meshwork cells inhibits the production of collagen and proteoglycans. When over-expressed in tumor cells it promotes collagen and proteoglycan deposition but inhibits tumor xenograft progression and tumor angiogenesis. ANGPTL7, when used in combination with SCF, Thrombopoietin, IGF-II, and FGF acidic, enhances the expansion and engraftment of human and mouse

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	hematopoietic stem cells.
Predicted N Terminal	No results: Gln27 predicted, sequencing might be blocked
Form	Lyophilized from a 0.2 µm filtered solution in PBS and NaCl.
Bio-activity	Measured by its ability to promote the expansion of E16 rat liver mononuclear cells in vitro, in the presence of Recombinant Mouse SCF/c-kit Ligand, Recombinant Mouse Thrombopoietin/Tpo, and Recombinant Mouse Flt-3 Ligand. The ED50 for this effect is 50-2
Molecular Mass	Predicted Molecular Mass: 39 kDa (unlabeled); SDS-PAGE: >110 kDa, reducing conditions.
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE with silver staining
Notes	Structure / Form: Oligomer, Biotinylated on protein carbohydrates
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Conjugation	Biotin

GENE INFORMATION

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Gene Name	ANGPTL7 angiopoietin-like 7 [Homo sapiens]
Official Symbol	ANGPTL7
Synonyms	ANGPTL7; angiopoietin-like 7; angiopoietin-related protein 7; AngX; CDT6; angiopoietin-like protein 7; angiopoietin-like factor (CDT6); cornea-derived transcript 6 protein; dJ647M16.1; RP4-647M16.2;
Gene ID	10218
mRNA Refseq	NM_021146
Protein Refseq	NP_066969
UniProt ID	O43827

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