



# ANGPTL-7 Recombinant Protein

Cat. No.: 40-659



## Ψ Specifications

<b>SPECIES:</b>	Human
<b>SOURCE SPECIES:</b>	High-5 Insect cells
<b>SEQUENCE:</b>	QKLSKHKTPA QPQLKAANCC EEVKELKAQV ANLSSLLSEL NKKQERDWVS VVMQVMELES NSKRME SRLT DAESKYSEM NQIDIMQLQA AQTVTQTSAD AIYDCSSLYQ KNYRISGVYK LPPDDFLGSP ELEVFCDMET SGGGWTTIQR RKSGLVSFYR DWKQYKQGF G SIRGDFWLGN EHIHRLSRQP TRLRVEMEDW EGNLRYAEYS HFVLGNELNS YRLFNGYTG NVGNDALQYH NNTAFSTKDK DNDNCLDKCA QLRKGGYWYN CCTDSNLNGV YYRLGEHNKH LDGITWYGWH GSTYSLKRVE MKIRPEDFKP HHHHHHHH

## Ψ Properties

<b>PURITY:</b>	≥ 98% by SDS-PAGE gel and HPLC analyses.
<b>PHYSICAL STATE:</b>	Lyophilized
<b>STORAGE CONDITIONS:</b>	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted protein is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C. As with any protein, exposing the recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

<b>OFFICIAL SYMBOL:</b>	ANGPTL7
<b>ALTERNATE NAMES:</b>	Angiopoietin-related protein 7, Angiopoietin-like protein 7, Cornea-derived transcript 6 protein, CDT6
<b>GENE ID:</b>	10218

 Background and References

<b>BACKGROUND:</b>	<p>Angiopoietin-like 7 (ANGPTL-7), or Cornea-Derived Transcript 6 (CDT6), is a member of the angiopoietin family of structurally related proteins, characterized by a coiled N-terminal domain and a C-terminal fibrinogen like domain. While ANGPTL-7 shares the structural features of the angiopoietin family, it plays a critical role in blocking the vascular endothelial Tie2 receptor to which other family members bind. Through the blocking of the Tie2 receptor, ANGPTL-7 does not act as a “true” angiopoietin, but rather as a morphogen that contributes to the avascularity and transparency of the cornea during both embryo and adult development. Human ANGPTL-7 is expressed at high levels in the avascular corneal stromal layer, a site of pathological angiogenesis normally devoid of blood vessels, suggesting that the protein acts as a negative regulator of angiogenesis in a manner similar to that of angiopoietin-1 and angiopoietin-2. In mouse xenograft models, ANGPTL-7 overexpression has been shown to lead to increased extracellular matrix components typical of a mature corneal stromal layer, as well as the reduction of tumor growth and aberrant blood vessel formation. Overexpression in human melanoma models shows a contradictory, up-regulation of endostatin, an endogenous angiostatic factor, in comparison to the down-regulation observed in mouse models. Recombinant Human ANGPTL-7 is a glycoprotein that migrates by SDS-PAGE analysis at an apparent molecular weight of 40- 50 kDa under reduced conditions, and contains 328 amino acid residues including a C-terminal His-tag. The calculated molecular weight of Recombinant Human ANGPTL-7 is 38.2 kDa.</p>
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