

## 32-20590: Recombinant Human ANGPTL-7(Discontinued)

**Alternative Name :** Angiopoietin-related protein 7, Angiopoietin-like protein 7, Cornea-derived transcript 6 protein, CDT6

### Description

#### Source: Hi-5 Insect cells

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.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** QKLSKHKTPA QPQLKAANCC EEVKELKAQV ANLSSLLSEL NKKQERDWVS VVMQVMELES  
NSKRMESESLT DAESKYSEM NQIDIMQLQA AQTVTQTSAD AIYDCSSLYQ KNYRISGVYK LPPDDFLGSP  
ELEVFCDMET SGGGWTTIIQR RKSGLVSYR DWKQYKQGFSG SIRGDFWLGN EHIHRLSRQP  
TRLRVEMEDW EGNLRYAEYS HFVLGNELNS YRLFLGNYTG NVGNDALQYH NNTAFSTKDK  
DNDNCLDKCA QLRKGGYWYN CCTDSNLNGV YYRLGEHNKH LDGITWYGWH GSTYSLKRVE  
MKIRPEDFKP HHHHHHHH

### Application Note

Measured by its binding ability to recombinant Alpha vBeta 3 integrin in a functional ELISA.