TECHNICAL DATA SHEET

Recombinant Human ANGPTL7 (Carrier-free)

Catalog Number: 21-7170

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human ANGPTL7 (Carrier-free)

DESCRIPTION

ANGPTL7 (Angiopoietin-Like Protein 7) is a secreted glycoprotein structurally related to the angiopoietin family of growth factors, but does not bind the angiopoietin-specific receptor Tie-2. Like other angiopoietin-like proteins, it contains C-terminal (fibrinogen-like) and N-terminal (coiled) domains. It is highly expressed in avascular corneal stromal layer and trabecular meshwork, and is also known as Cornea-Derived Transcript 6 (CDT6). ANGPTL7 is thought to be a negative regulator of angiogenesis and a role as a morphogen has been suggested.

MOLECULAR MASS

Recombinant Human ANGPTL3 is a 38.2 kDa glycosylated protein that contains a C-terminal His-tag and is comprised of 328 amino acids. It migrates at approximately 40-50 kDa by SDS-PAGE under reducing conditions.

AMINO ACID SEQUENCE

QKLSKHKTPA QPQLKAANCC EEVKELKAQV ANLSSLLSEL NKKQERDWVS VVMQVMELES NSKRMESRLT DAESKYSEMN NQIDIMQLQA AQTVTQTSAD AIYDCSSLYQ KNYRISGVYK LPPDDFLGSP ELEVFCDMET SGGGWTIIQR RKSGLVSFYR DWKQYKQGFG SIRGDFWLGN EHIHRLSRQP TRLRVEMEDW EGNLRYAEYS HFVLGNELNS YRLFLGNYTG NVGNDALQYH NNTAFSTKDK DNDNCLDKCA QLRKGGYWYN CCTDSNLNGV YYRLGEHNKH LDGITWYGWH GSTYSLKRVE MKIRPEDFKP HHHHHHHH

SOURCE	APPLICATIONS	PURITY	STORAGE
Hi-5 Insect cells	Bioassay	98 %	-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

The ability to bind recombinant integrin alpha V, beta 3 is measured through a functional ELISA.

RESEARCH AREAS

Diabetes, Angiogensis & Cardiovascular, Lipid Metabolism

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Peek R, van Gelderen BE, Bruinenberg M and Kijlstra A. 1998. Invest Ophthalmol Vis Sci. 39(10): 1782-1788. Peek R, Kammerer RA, Frank S, Otte-Höller I and Westphal JR. 2002. J Biol Chem. 277(1): 686-693. Santulli G. 2014. Front Endocrinol (Lausanne). 5: 4 DOI: 10.3389/fendo.2014.00004. Hato T, Tabat M and Oike Y. 2008. Trends Cardiovasc Med. 18(1): 6-14. Oike Y, Yasunaga K, Suda T. 2004. Int J Hematol. 80: 21–28.