

TECHNICAL DATA SHEET

Recombinant Human ANGPTL7 (Carrier-free)

Catalog Number: 21-7170

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

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 ANGPTL7 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 NSKRME SRLT DAESKYSEM NQIDIMQLQA
AQTVTQTSAD AIYDCSSLYQ KNYRISGVYK LPPDDFLGSP ELEVFCDMET SGGGWTTIQR RKSGLVSYFR DWKQYKQGF G SIRGDFWLG N EHIHRLSRQP
TRLRVEMEDW EGNLRYAEYS HFVLGNELNS YRLFLGN YTG NVGNDALQYH NNTAFSTKDK DNDNCLDKCA QLRKGGYWYN CCTDSNLNGV
YYRLGEHNKH LDGITWYGWH GSTYSLKRVE MKIRPEDFKP HHHHHHHH

SOURCE

Hi-5 Insect cells

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-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, Angiogenesis & 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.

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