

TECHNICAL DATA SHEET

Recombinant Human ANGPTL3 (Carrier-free)

Catalog Number: 21-7169

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human ANGPTL3 (Carrier-free)

DESCRIPTION

ANGPTL3 (Angiopoietin-Like Protein 3) is a secreted glycoprotein structurally related to the angiopoietin family of growth factors, but does not bind the angiopoietin-specific receptors Tie-2 or Tie-1. ANGPTL3 is expressed primarily in the liver during early liver development and throughout adulthood. It is found in full-length, C-terminal (fibrinogen-like) and N-terminal (coiled) formats in plasma. It is a lipoprotein lipase (LPL) inhibitor, promoting an increase in circulating triglyceride levels. ANGPTL3 also plays a role in angiogenesis, with the fibrinogen-like domain binding to integrin alpha V, beta 3 and inducing adhesion and migration of endothelial cells.

MOLECULAR MASS

Recombinant Human ANGPTL3 contains a C-terminal His-tag and is comprised of 452 amino acids. It migrates at approximately 62 kDa by SDS-PAGE.

AMINO ACID SEQUENCE

SRIDQDNSSF DSLSPPKSR FAMLDDVKIL ANGLLQLGHG LKDFVHKTKG QINDIFQKLN IFDQSFYDLS LQTSEIKEEE KELRRTTYKL QVKNEEVKNNM SLELNSKLES LLEEKILLQQ KVKYLEEQLT NLIQNQPETP EHPEVTSKLT FVEKQDNSIK DLLQTVEDQY QQLNQQHSQI KEIENQLRRT SIQEPTEISL SSKPRAPRTT PFLQLNEIRN VKHDGIPAEC TTIYNRGEHT SGMYAIRPSN SQVFHVYCDV ISGSPWTLIQ HRIDGSQNFN ETWENYKYGF GRLDGEFWLG LEKIYSIVKQ SNYVLRIELE DWKDNKHIE YSFYLGNET NYTLHLVAIT GNVNPAIPEN KDLVFSTWDH KAKGHFNCPE GYSGGWWWHHD ECGENNLNGK YNKPRAKSKP ERRRGLSWKS QNGRLYSIKS TKMLIHPTDS ESFEHHHHHH HH

SOURCE

CHO 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

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. Li C. 2006. Curr Opin Lipidol. 17(2): 152-156. Conklin D, Gilbertson D, Taft DW, Maurer MF, Whitmore TE, Smith DL, Walker KM, Chen LH, Wattler S, Nehls M, et. al. 1999. Genomics. 62(3): 477-482.

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