

TECHNICAL DATA SHEET

Recombinant Human PLGF-2 (Carrier-Free)

Catalog Number: 21-9049

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human PLGF-2 (Carrier-Free)

DESCRIPTION

PLGF-2 is an angiogenic factor that belongs to the cysteine-knot superfamily of growth factors. PLGF-2 is expressed in umbilical vein endothelial cells and placenta. It signals through the VEGFR-1/FLT1 receptor, and stimulates endothelial cell proliferation and migration. PLGF-2 also signals through Neuropilin (NP-1), and can bind with high affinity to heparin.

MOLECULAR MASS

Recombinant Human PLGF-2 is a 34.0 kDa disulfide-linked homodimeric protein of two 150 amino acid polypeptide chains.

AMINO ACID SEQUENCE

LPAVPPQQWA LSAGNGSSEV EVVPFQEVWG RSYCRALERL VDVVSEYPSE VEHMFSPSCV SLLRCTGCCG DENLHCVPE TANVTMQLLK
 IRSGDRPSYV ELTFSQHVRC ECRPLREKMK PERRRPKGRG KRRREKQRPT DCCGDAVPRR

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

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

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

Human

BIOACTIVITY

Determined by its ability to chemoattract human monocytes of using a concentration range of 5.0-50.0 ng/ml.

RESEARCH AREAS

Inflammation, Proliferation, Cancer, Angiogenesis/Cardiovascular

RECONSTITUTION

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

REFERENCES

Martino, M M. Heparin-binding domain of fibrin(ogen) binds growth factors and promotes tissue repair when incorporated within a synthetic matrix. 2013. Proceedings of the National Academy of Sciences of the USA; 110(12):4563-8

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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