

TECHNICAL DATA SHEET

## Recombinant Human PLGF-2 (Carrier-Free)

Catalog Number: 21-9237

### 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. PIGF-2 also signals through Neuropilin (NP-1), and can bind with high affinity to heparin.

#### MOLECULAR MASS

34.6 kDa of two 152 aa

#### AMINO ACID SEQUENCE

LPAVPPQQWA LSAGNGSSEV EVVPFQEVWG RSYCRALERL VDVVSEYPSE VEHMFSPSCV SLLRCTGCCG DENLHCVPVE TANVTMQLLK  
IRSGDRPSYV ELTFSQHVRC ECRPLREKMK PERRRPKGRG KRRREKQRPT DCHLCGDAVP RR

#### SOURCE

E.coli

#### APPLICATIONS

Bioassay

#### PURITY

≥95 %

#### STORAGE

-20°C

#### PROTEIN CONTENT

Content Verified by HPLC 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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