

TECHNICAL DATA SHEET

Recombinant Human PIGF-1 (Carrier-free)

Catalog Number: 21-7082

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human PIGF-1 (Carrier-free)

DESCRIPTION

Placenta growth factor-1 (PIGF-1) is one of four PIGF isoforms that belong to the vascular endothelial growth factor (VEGF) family. PLGF plays a key role in the maternal vascular function during pregnancy. PIGF-1 is an angiogenic factor that stimulates endothelial cell proliferation and migration, and is expressed in trophoblast and HUVECs, colon, and mammary carcinomas. PIGF-1 acts through the VEGFR-1/FLT1 receptor.

MOLECULAR MASS

Recombinant human PIGF-1 is a 29.7 kDa disulfide-linked homodimeric protein of two 132 amino acid polypeptide chains.

AMINO ACID SEQUENCE

MLPAVPPQQW ALSAGNGSSEV EVVPFQEVWGR SYCRALERLVD VVSEYPSEVE HMFSPSCVSL LRCTGCCGDE NLHCVPVETA NVTMQLLKIR SGDRPSYVEL TFSQHVRCEC RPLREKMKPE RCGDAVPRR

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

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

Determined by its ability to chemoattract human monocytes of using a concentration range of 1.0-10.0 ng/ml.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Cancer; Inflammation; Proliferation

RECONSTITUTION

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

REFERENCES

Ribatti D. 2008. Angiogenesis. 11(3): 215-221. Yang W, Ahn H, Hinrichs M, Torry RJ and Torry DS. 2003. J Reprod Immunol. 60(1): 53-60. Maae E, Olsen DA, Steffensen KD, Jakobsen EH, Brandslund I, Sorensen FB and Jacobsen A. 2012. Breast Cancer Res Treat. 133(1): 257-265.

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