

**TECHNICAL DATA SHEET**

**Recombinant Human VEGF-C (Carrier-Free)**

Catalog Number: 21-9023

**RPx-Pro™ Recombinant Protein**

**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human VEGF-C (Carrier-Free)

**DESCRIPTION**

VEGF-C, a member of the VEGF/PDGF family of structurally related proteins, is a potent angiogenic cytokine. It promotes endothelial cell growth, promotes lymphangiogenesis, and can also affect vascular permeability. VEGF-C is expressed in various tissues, but is not produced in peripheral blood lymphocytes.

**MOLECULAR MASS**

Recombinant Human VEGF-C is a non-disulfide-linked homodimeric protein consisting of two 13.5 kDa polypeptide chains of 116 amino acid residues. Due to glycosylation, the protein migrates as a 20.0-22.0 kDa band by SDS-PAGE analysis under non-reducing conditions.

**AMINO ACID SEQUENCE**

AHYNTEILKS IDNEWRKTQC MPREVCIDVG KEFGVATNTF FKPPCVSVYR CGGCCNSEGL QCMNTSTSYL SKTLFEITVP LSQGPKPVTI SFANHTSCRC MSKLDVYRQV HSIIRR

**SOURCE**

HEK293 cells

**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, Mouse

**BIOACTIVITY**

Determined by its ability to support rat Retinal Ganglion Cells (RGC-5) cell growth in low serum media.

**RESEARCH AREAS**

Inflammation, Angiogenesis/Cardiovascular, Proliferation, Cancer

**RECONSTITUTION**

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

**REFERENCES**

Benedito, R. Notch-dependent VEGFR3 upregulation allows angiogenesis without VEGF-VEGFR2 signalling. 2012. Nature; 484(7392):110-4. Argaw, A.T. Astrocyte-derived VEGF-A drives blood-brain barrier disruption in CNS inflammatory disease. 2012. The Journal of Clinical Investigation; 122(7):2454-68. Cao, R. Collaborative interplay between FGF-2 and VEGF-C promotes lymphangiogenesis and metastasis. 2012. Proceedings of the National Academy of Sciences of the USA; 109(39):15894-9.

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