

## Product Information Sheet

### Recombinant Human VEGF-C

**Catalog#** 100-20C

**Source:** HEK 293 cells

**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. It forms cell surfaced-associated non-covalent disulfide linked homodimers, and can bind and activate both VEGFR-2 (flk1) and VEGFR-3 (flt4) receptors. During embryogenesis, VEGF-C may play a role in the formation of the venous and lymphatic vascular systems. Both VEGF-C and VEGF-D are over-expressed in certain cancers, and the resulting elevated levels of VEGF-C or VEGF-D tend to correlate with increased lymphatic metastasis. Recombinant human VEGF-C is a 13.5 kDa non-disulfide linked homodimeric protein consisting of two 116 amino acid polypeptide chains. Due to glycosylation the protein migrates as a 20.0-22.0 kDa band under non-reducing condition.

**Synonyms:** Vascular Endothelial Growth Factor-C, VRP, flt4 ligand

**Sequence:** AHYNTEILKS IDNEWKTKQC MPREVCIDVG KEFGVATNTF FKPPCVSVYR CGGCCNSEGL QCMNTSTSYL SKTLFEITVP  
LSQGPKEPVTI SFANHTSCRC MSKLDVYRQV HSIIRR

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

**Purity:** ≥ 95% by SDS-PAGE gel and HPLC analyses.

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

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

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

For a list of references please visit our website at [www.peprotech.com](http://www.peprotech.com)

**Country of Origin:** USA

Lot-specific information is not available on Product Information Sheet.  
See Certificate of Analysis for details.

#### Storage/Stability:

Product Form	Temperature	Storage Time
Lyophilized	-20°C to -80°C	See expiration date
Lyophilized	4°C	6 months
Lyophilized	RT	1 month
Diluted as per CoA	-20°C to -80°C	3 months
Diluted as per CoA	2°C to 8°C	1 week

**\*\*Avoid repeated freeze-thaw cycles.**