

## Active Recombinant Human VEGFC Protein (126 aa)

**Cat. No.** VEGFC-160V    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human VEGF-C produced in HEK293 cells is a polypeptide chain containing 126 amino acids. A fully biologically active molecule, rhVEGF-C has a molecular mass of 16-19 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	126
<b>Description</b>	Vascular endothelial growth factor C (VEGF-C) is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family, is active in angiogenesis, lymphangiogenesis and endothelial cell growth and survival, and can also affect the permeability of blood vessels. VEGF-C is expressed in various tissues, however it is not produced in peripheral blood lymphocytes. It forms cell surface-associated non-covalent disulfide linked homodimers, and can bind and activate both VEGFR-2 (flk1) and VEGFR-3 (flt4) receptors. The structure and function of VEGF-C is similar to those of vascular endothelial growth factor D (VEGF-D).
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	Measured in a cell proliferation assay using HMVEC human microvascular endothelial cells. The ED50 for this effect is < 0.5 µg/mL.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	16~19 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	MAHYNTEILKSIDNEWKRTQCMPREVCIDVGKEFGVATNTFFKPPCVSVYRCGGCC NSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVTISFANHTSCRCMSKLDVYRQVHSI IRR
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Storage</b>	Lyophilized recombinant Human Vascular Endothelial Growth Factor C remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Vascular Endothelial Growth Factor C should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	VEGFC vascular endothelial growth factor C [ Homo sapiens ]
<b>Official Symbol</b>	VEGFC
<b>Synonyms</b>	VEGFC; vascular endothelial growth factor C; VRP; VEGF-C; FLT4 ligand DHM; vascular endothelial growth factor-related protein; Flt4-L;
<b>Gene ID</b>	7424
<b>mRNA Refseq</b>	NM_005429

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<b>Protein Refseq</b>	NP_005420
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<b>MIM</b>	601528
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<b>UniProt ID</b>	P49767
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