

# Recombinant Human VEGFC, Fc-tagged

**Cat. No.** VEGFC-31451TH    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length human VEGFC expressed in modified human 293 cells; secreted disulfide linked antiparallel homodimer; 45-55kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family, is active in angiogenesis and endothelial cell growth, and can also affect the permeability of blood vessels. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms which bind and activate VEGFR-3 receptors. Only the fully processed form can bind and activate VEGFR-2 receptors. This protein is structurally and functionally similar to vascular endothelial growth factor D. |
| <b>Conjugation</b>      | Fc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>             | Lyophilised: It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not reco                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>   | Preservative: None<br>Constituents: 10% Trehalose, 1% Human serum albumin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Store at +4°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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**Sequences of amino acids**

TheoreticalSequence:FESGLDLSDAEPDAGEAT AYASKDLEEQLRSVSSVDELMTVL  
 YPEYWKMVKCQLRK GGWQHNREQANLNSRTEETIKFAAAHYNTEILKSIDNEWRK  
 TQCMPREVCIDVGKEFGVATNTFFKPPCVSVYRCGGC CNSEGLQCMNTSTSYLSK  
 TLFEITVPLSQGPKPVTISF ANHTSCRCMSKLDVYRQVHSIIRDisulfide bonded to:S  
 LPATLPQCQAANKTCPTNYMWNNHICRCLAQEDF MFSSDAGDDSTDGFHDICGPN  
 KELDEETCQCVCRAGLR PASCGRAPHKELDRNSCQCVCKNKLFPSCGANREFDEN  
 T CQCVCKRTCPRNQPLNPGKCACECTESPQKCLLKGGKF HHQTCSCYRRPCTNR  
 QKACEPGFSYSEEVCRCVPSYWKRPQMSNote: N-terminal sequences confirmed b  
 y Edman sequencing.

**Full Length**

Full L.

**GENE INFORMATION**
**Gene Name**

VEGFC vascular endothelial growth factor C [ Homo sapiens ]

**Official Symbol**

VEGFC

**Synonyms**

VEGFC; vascular endothelial growth factor C; VRP;

**Gene ID**

7424

**mRNA Refseq**

NM\_005429

**Protein Refseq**

NP\_005420

**MIM**

601528

**Uniprot ID**

P49767

**Chromosome**

4q34.3

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| Location |                                                                                                                                                                                                                                                                  |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pathway  | Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Focal Adhesion, organism-specific biosystem; |
| Function | chemoattractant activity; growth factor activity; protein binding; vascular endothelial growth factor receptor 3 binding;                                                                                                                                        |

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