

# Recombinant Human Vascular Endothelial Growth Factor C, His-tagged

**Cat. No.** VEGFC-615H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | The recombinant human protein contains N-terminal and C-terminal His-tags (167 aa, MW 18.772 kDa).                                                               |
| <b>Species</b>             | Human                                                                                                                                                            |
| <b>Source</b>              | E.coli                                                                                                                                                           |
| <b>Description</b>         | The recombinant VEGFC (Vascular Endothelial Growth Factor-C) lacks the N-terminal signal peptide and includes amino acids from T103 to R227 of Gene Bank U58111. |
| <b>Biological Activity</b> | Activity of VEGFC is tested by the stimulation of VEGF-R3 phosphorylation in cells transfected with VEGF-R3. The expected ED50 is > 200 ng/ml.                   |
| <b>Molecular Weight</b>    | 18.772 kDa                                                                                                                                                       |
| <b>Form</b>                | Lyophilized without additives.                                                                                                                                   |
| <b>Appearance</b>          | Lyophilized protein                                                                                                                                              |
| <b>Endotoxin Level</b>     | <0.1 ng/μg                                                                                                                                                       |
| <b>Reconstitution</b>      | We recommend a quick spin followed by reconstitution in 0.1% acetic acid to a concentration of 0.1-1.0 mg/ml. The solution should be stored at -70°C.            |

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|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>   | >90% by SDS-PAGE analyses.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>  | The lyophilized VEGFC is best-stored at -20°C. Reconstituted VEGFC should be stored in working aliquots at -70°C.                                                                                                                                                                                                                                                                                                                     |
| <b>Pathways</b> | Bladder cancer; Cytokine-cytokine receptor interaction; Focal Adhesion; Focal adhesion; Formation of Platelet plug; Heart Development; Hemostasis; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; Response to elevated platelet cytosolic Ca2+; Signaling by VEGF; Signaling events mediated by VEGFR1 and VEGFR2; VEGF ligand-receptor interactions; VEGFR3 signaling in lymphatic endothelium; mTOR signaling pathway |

## 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; RP; Flt4-L; VEGF-C; FLT4 ligand DHM; OTTHUMP00000218843; vascular endothelial growth factor-related protein; VRP; Flt4 ligand |
| <b>Gene ID</b>         | 7424                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_005429                                                                                                                                                                  |
| <b>Protein Refseq</b>  | NP_005420                                                                                                                                                                  |
| <b>MIM</b>             | 601528                                                                                                                                                                     |
| <b>UniProt ID</b>      | P4976                                                                                                                                                                      |

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**Chromosome**

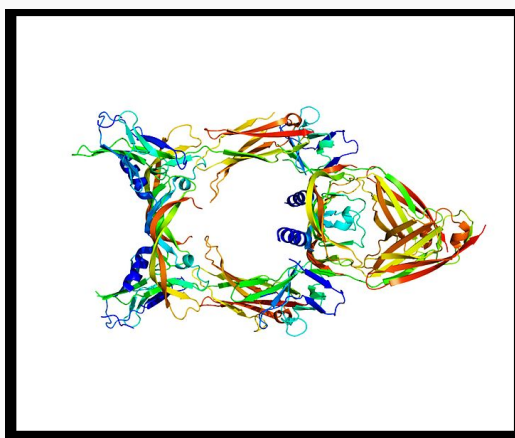
**Location**

4q34.3

**Function**

chemoattractant activity; growth factor activity; protein binding; vascular endothelial growth factor receptor 3 binding

**Rendering based on  
PDB 2X1W.**



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