

# Recombinant Human VEGFC protein(Thr103-Arg227), His-tagged

**Cat. No.** VEGFC-2414H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human VEGFC (NP_005420.1) (Thr103-Arg227) was expressed in HEK293 with a C-terminal polyhistidine tag.                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Thr103-Arg227                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                              |
| <b>Bio-activity</b>     | 1. Measured by its binding ability in a functional ELISA. Immobilized VEGF C-his at 2 µg/mL (100 µL/well) can bind VEGFR3 hFc, the EC50 of VEGFR3 hFc is 2-15 ng/mL. 2. Scatchard analysis showed the affinity constant (Kd) of recombinant human VEGF-C bound to recombinant human VEGFR3 was 1.4 nM. 3. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 0.1-0.5 µg/mL. |
| <b>Molecular Mass</b>   | The recombinant mature form of human VEGFC consists of 136 amino acids and has a predicted molecular mass of 15.5 kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 22.5 kDa due to glycosylation.                                                                                                                                                                                                                 |
| <b>Endotoxin</b>        | < 1.0 EU per                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                       |                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | µg of the protein as determined by the LAL method                                                                                                                                                                                               |
| <b>Purity</b>         | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                   |

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

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