

## Vascular Endothelial Growth Factor C (VEGFC) Active Protein | VEGFC active protein

Active Vascular Endothelial Growth Factor C (VEGFC)

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                 |
|-----------|--------|------------|------------------------------|
| AAA148165 | E Coli | Human      | Activity Assay, Cell Culture |

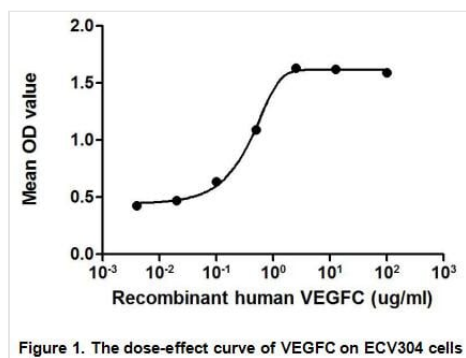
### PRODUCT SYNONYMS

Vascular Endothelial Growth Factor C (VEGFC); Active Vascular Endothelial Growth Factor C (VEGFC); VEGF-C; Flt4-L; VRPL; Vascular Endothelial Growth Factor-Related Protein; VEGFC active protein

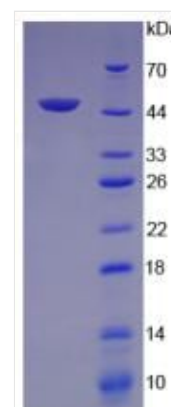
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Host                                             | E Coli                                                                                              |
| Reactivity                                       | Human                                                                                               |
| Purity/Purification                              | > 90%                                                                                               |
| Form/Format                                      | Freeze-dried powder                                                                                 |
| Sequence Length                                  | 419                                                                                                 |
| Applicable Applications for VEGFC active protein | Activity Assay, Cell Culture                                                                        |
| Tag                                              | N-terminal His Tag                                                                                  |
| Buffer Formulation                               | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| Fragment                                         | Glu47~Trp413                                                                                        |
| Isoelectric Point                                | 8.2                                                                                                 |

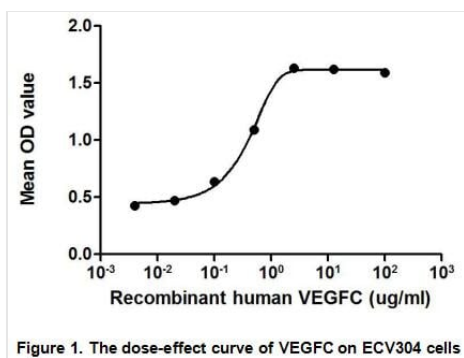
### IMAGES



Application Data



SDS-PAGE



#### Activity

Vascular endothelial growth factor C (VEGFC) is a protein that is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family. It plays key roles in the physiology and pathology of many aspects of the cardiovascular system, including vasculogenesis, hematopoiesis, angiogenesis and vascular permeability. To test the effect of VEGFC on cell proliferation of ECV304 endothelium cell line, cells were seeded into triplicate wells of 96-well plates at a density of 2,000cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of VEGFC. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. The dose-effect curve of VEGFC was shown in Figure 1. It was obvious that VEGFC significantly promoted cell proliferation of ECV304 cells. The ED50 for this effect is typically 0.304 to 1.339ug/mL.

### ADDITIONAL INFORMATION

|                                                    |                          |
|----------------------------------------------------|--------------------------|
| Product Categories/Family for VEGFC active protein | Cytokine; Tumor immunity |
|----------------------------------------------------|--------------------------|

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                         |
|----------------------------------|-------------------------------------------------------------------------|
| NCBI GI #                        | 4885653                                                                 |
| NCBI GeneID                      | 7424                                                                    |
| NCBI Accession #                 | NP_005420.1                                                             |
| NCBI GenBank Nucleotide #        | NM_005429.4                                                             |
| UniProt Accession #              | P49767; B2R9Q8                                                          |
| Molecular Weight                 | Predicted Molecular Weight: 45.3kDa<br>Accurate Molecular Weight: 45kDa |
| NCBI Official Full Name          | vascular endothelial growth factor C preproprotein                      |
| NCBI Official Synonym Full Names | vascular endothelial growth factor C                                    |
| NCBI Official Symbol             | VEGFC                                                                   |
| NCBI Official Synonym Symbols    | VRP; Flt4-L; LMPH1D                                                     |
| NCBI Protein Information         | vascular endothelial growth factor C                                    |
| UniProt Protein Name             | Vascular endothelial growth factor C                                    |
| UniProt Gene Name                | VEGFC                                                                   |
| UniProt Synonym Gene Names       | VEGF-C; Flt4-L; VRP                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

