

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

**Cat. No.** Vegfc-635R    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant ratVegfc, lacking the N- and C-terminal extensions and containing only the middle VEGF homology domain, forms primarily non-covalently linked dimers.                                                                                         |
| <b>Species</b>             | Rat                                                                                                                                                                                                                                                       |
| <b>Source</b>              | Insect Cells                                                                                                                                                                                                                                              |
| <b>Description</b>         | Vegfc, also known as Vascular Endothelial Growth Factor Related Protein (VRP), is a recently discovered VEGF growth factor family member that is most closely related to VEGF-D. The rat Vegfc cDNA encodes a pre-pro-protein of 416 amino acid residues. |
| <b>Form</b>                | lyophilized                                                                                                                                                                                                                                               |
| <b>Purity</b>              | > 90%, by SDS-PAGE and visualized by silver stain.                                                                                                                                                                                                        |
| <b>Molecular Weight</b>    | 36-48 kDa                                                                                                                                                                                                                                                 |
| <b>Range</b>               | 100-400 ng/ml                                                                                                                                                                                                                                             |
| <b>Endotoxin Level</b>     | < 0.1 ng per µg of Vegfc152S                                                                                                                                                                                                                              |
| <b>Biological Activity</b> | 5 x 10 <sup>3</sup> units/mg. Measured by its ability to stimulate phosphorylation of the VEGFR-3/FLT-4 receptor in porcine aortic endothelial cells (PAE/FLT-4 cells). The ED <sub>50</sub> for                                                          |

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | this effect is typically 150-300 ng/ml.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Stabilizer</b>      | BSA                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reconstitution</b>  | Centrifuge vial briefly before opening to bring contents to bottom of vial. The lyophilized Vegfc152S is soluble in water and most aqueous buffers. The lyophilized Vegfc152S should be reconstituted in PBS or medium to a concentration not lower than 50 µg/ml.                                                                                                                            |
| <b>Storage</b>         | Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted Vegfc152S should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                       |
| <b>Official Symbol</b> | Vegfc                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pathways</b>        | Bladder cancer; Cytokine-cytokine receptor interaction; Focal Adhesion; Focal adhesion; Hemostasis; Pancreatic cancer; Pathways in cancer; Platelet activation; Platelet degranulation; Renal cell carcinoma; Response to elevated platelet cytosolic Ca <sup>2+</sup> ; Signal Transduction; Signaling by VEGF; VEGF binds to VEGFR leading to receptor dimerization; mTOR signaling pathway |

## GENE INFORMATION

|                  |                                                                                                                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b> | Vegfc vascular endothelial growth factor C [ <i>Rattus norvegicus</i> ]                                                                                                                                                                  |
| <b>Synonyms</b>  | Vegfc; vascular endothelial growth factor C; VRP; VEGF-C; flt4-L; flt4 ligand; vascular endothelial growth factor-related protein; Vascular endothelial growth factor C; Flt4 ligand; Vascular endothelial growth factor-related protein |
| <b>Gene ID</b>   | 114111                                                                                                                                                                                                                                   |

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|-------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>mRNA Refseq</b>                  | NM_053653                                                                                              |
| <b>Protein Refseq</b>               | NP_446105                                                                                              |
| <b>UniProt ID</b>                   | O35757                                                                                                 |
| <b>Chromosome Location</b>          | 16p11                                                                                                  |
| <b>Function</b>                     | chemoattractant activity; growth factor activity; vascular endothelial growth factor receptor3 binding |
| <b>Rendering based on PDB 2X1W.</b> |                                                                                                        |

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