

## Active Recombinant Rat Vegfc 152S Mutant Protein

**Cat. No.** Vegfc-5536R    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Rat Vegfc152S is a point mutant generated by the replacement of the second conserved Cys residue of the recombinant processed Vegfc by a Ser residue.                                                                                          |
| <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 acids 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 this effect is typically 150-300 ng/ml.                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 50µg/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                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b> | NM_053653                                                                                                                                                                                                                                |

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|-------------------------------------|--------------------------------------------------------------------------------------------------------|
| <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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