

Recombinant Mouse Vascular Endothelial Growth Factor C

Cat. No. Vegfc-5535M **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Recombinant mouse Vegfc is a 129 amino acid recombinant protein that lacks the N-terminal and C-terminal extensions and contains only the middle third VEGF homology domain. |
| Species | Mouse |
| Source | E.coli |
| Description | Vascular endothelial growth factor C is a VEGF. The human gene encoding it is Vegfc. The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor family, is active in angiogenesis, lymphangiogenesis and endothelial cell growth and survival, and can also affect the permeability of blood vessels. |
| Form | Lyophilized from acetic solution with 50 µg BSA per 1 µg Vegfc. |
| Purity | > 90% as determined by SDS-PAGE analysis. |
| Molecular Weight | 18 kDa |
| Endotoxin Level | < 0.1 ng/µg of Vegfc |
| Biological Activity | Activity of Vegfc will be tested by the stimulation of VEGFR3 phosphorylation in cells transfected with VEGFR3. The expected ED50 is > 200 ng/ml. |

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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| Reconstitution | Centrifuge vial prior to opening. Add 0.1% acetic acid to the vial to fully solubilize the protein to a concentration of 0.1-1.0 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions. |
| Storage | Store lyophilized protein at -20°C and reconstituted protein in working aliquots at -80°C. Avoid repeated freeze-thaw cycles. |
| Official Symbol | Vegfc |
| Pathways | Bladder cancer; Cytokine-cytokine receptor interaction; Focal Adhesion; Focal adhesion; Hemostasis; PI3K/Akt/mTOR signaling pathway; Pancreatic cancer; Pathways in cancer; Platelet activation; Platelet degranulation; Renal cell carcinoma; Response to elevated platelet cytosolic Ca ²⁺ ; Signal Transduction; Signaling by VEGF; VEGF binds to VEGFR leading to receptor dimerization |

GENE INFORMATION

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| Gene Name | Vegfc vascular endothelial growth factor C [<i>Mus musculus</i>] |
| Synonyms | Vegfc; vascular endothelial growth factor C; VEGF-C; AW228853; vascular endothelial growth factor C; VRP; flt4-L; flt4 ligand; vascular endothelial growth factor C isoform 129; vascular endothelial growth factor C isoform 184; vascular endothelial growth factor-related protein; Vascular endothelial growth factor C; Flt4 ligand; Vascular endothelial growth factor-related protein |
| Gene ID | 22341 |
| mRNA Refseq | NM_009506 |
| Protein Refseq | NP_033532 |

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|-------------------------------------|--|
| UniProt ID | P97953 |
| Chromosome Location | 8; 8 B3 |
| Function | chemoattractant activity; growth factor activity; vascular endothelial growth factor receptor3 binding |
| Rendering based on PDB 2X1W. | |

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