

Recombinant Mouse Vascular Endothelial Growth Factor C

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

SPECIFICATION

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 a 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

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

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

 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

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.	

 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