

Recombinant Rat Vascular Endothelial Growth Factor C, His-tagged

Cat. No. Vegfc-5345R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Vegfc contains 129 amino acids and is fused to a His-tag (6x His) at the C-terminal end. As a result of glycosylation, Vegfc migrates as an 18-24 kDa protein in SDS-PAGE under reducing conditions.
Species	Human
Source	Insect Cells
Description	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. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms that bind and activate VEGFR-3 receptors. Only the fully processed form can bind and activate VEGFR-2 receptors. The structure and function of this protein is similar to those of vascular endothelial growth factor D.
Molecular Weight	18-24 kDa
Endotoxin Level	< 0.1 ng/μg of the protein.
Form	Lyophilized from a sterile filtered solution containing BSA.
Purity	> 90% by SDS-PAGE and visualized by silver stain.

 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

Biological Activity	Measured by its ability to stimulate phosphorylation of the VEGFR-3/FLT-4 receptor in pig aortic endothelial cells. The ED50 for this effect is typically 200-300 ng/ml.
Reconstitution	Centrifuge vial prior to opening. The lyophilized Vegfc is soluble in water and most aqueous buffers. The lyophilized Vegfc should be reconstituted in PBS or medium to a concentration not lower than 50 µg/ml.
Storage	Lyophilized samples are stable for greater than six months at -20°C to -80°C. Reconstituted Vegfc should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.
Official Symbol	Vegfc

GENE INFORMATION

Gene Name	Vegfc vascular endothelial growth factor C [Rattus norvegicus]
Synonyms	Vegfc; vascular endothelial growth factor C; vascular endothelial growth factor C; VRP; VEGF-C; flt4-L; flt4 ligand; vascular endothelial growth factor-related protein
Gene ID	114111
mRNA Refseq	NM_053653
Protein Refseq	NP_446105
UniProt ID	O35757
Chromosome Location	16p11

 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

Pathway

Bladder cancer; Cytokine-cytokine receptor interaction; Focal adhesion; Hemostasis; Pancreatic cancer; Pathways in cancer; Platelet activation; Platelet degranulation; Renal cell carcinoma; Response to elevated platelet cytosolic Ca²⁺; Signal Transduction; Signaling by VEGF; VEGF binds to VEGFR leading to receptor dimerization; VEGF ligand-receptor interactions; VEGFR-3 signaling; mTOR signaling pathway

Function

chemoattractant activity; growth factor activity; vascular endothelial growth factor receptor3 binding

Rendering based on
PDB 2X1W.

