Recombinant Rat Vascular Endothelial Growth Factor C, His-tagged

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

SPECIFICATION

Product Overview	Recombinantrat Vegfc contains129 amino acids and is fused to a His-tag (6x His) at theC-terminal end. As a result of glycosylation, Vegfc migratesas an 18-24 kDa protein in SDS-PAGE under reducingconditions.
Species	Human
Source	Insect Cells
Description	Theprotein encoded by this gene is a member of the platelet-derived growthfactor/vascular endothelial growth factor family, is active in angiogenesis, lymphangiogenesisand endothelial cell growth and survival, and can also affect thepermeability of blood vessels. This secreted protein undergoes a complexproteolytic maturation, generating multiple processed forms that bind andactivate VEGFR-3 receptors. Only the fully processed form can bind andactivate VEGFR-2 receptors. The structure and function of this protein issimilar to those of vascular endothelial growth factor D.
Molecular Weight	18-24 kDa
Endotoxin Level	< 0.1 ng/μgof the protein.
Form	Lyophilized from asterile filtered solution containing BSA.
Purity	> 90% bySDS-PAGE and visualized by silver stain.

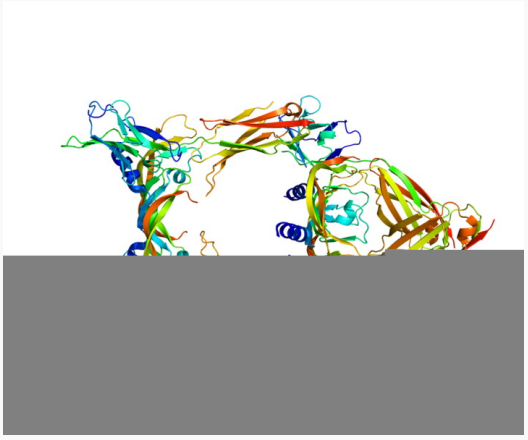
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Biological Activity	Measuredby its ability to stimulate phosphorylation of the VEGFR-3/FLT-4 receptor in pigaortic endothelial cells. The ED50 for this effect is typically 200-300ng/ml.
Reconstitution	Centrifugevial prior to opening. The lyophilized Vegfc issoluble in water and most aqueous buffers. The lyophilized Vegfc shouldbe reconstituted in PBS or medium to a concentrationnot lower than 50 µg/ml.
Storage	Lyophilizedsamples are stable for greater than six months at -20°C to -80°C. ReconstitutedVegfc shouldbe stored in working aliquots at -20°C. Avoid repeated freeze-thawcycles.
OfficialSymbol	Vegfc

GENE INFORMATION

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

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Pathway	Bladder cancer;Cytokine-cytokine receptor interaction; Focal adhesion; Hemostasis;Pancreatic cancer; Pathways in cancer; Platelet activation; Plateletdegranulation; Renal cell carcinoma; Response to elevated platelet cytosolicCa2+; Signal Transduction; Signaling by VEGF; VEGF binds to VEGFR leading toreceptor dimerization; VEGF ligand-receptor interactions; VEGFR-3 signaling;mTOR signaling pathway
Function	chemoattractantactivity; growth factor activity; vascular endothelial growth factor receptor3 binding
Renderingbased on PDB 2X1W.	

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