

# Recombinant Rat Vascular Endothelial Growth Factor C, His-tagged

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

## SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	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.
<b>Molecular Weight</b>	18-24 kDa
<b>Endotoxin Level</b>	< 0.1 ng/μg of the protein.
<b>Form</b>	Lyophilized from a sterile filtered solution containing BSA.
<b>Purity</b>	> 90% by SDS-PAGE and visualized by silver stain.

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<b>Biological Activity</b>	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 200-300ng/ml.
<b>Reconstitution</b>	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.
<b>Storage</b>	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.
<b>Official Symbol</b>	Vegfc

## 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; vascular endothelial growth factor C; VRP; VEGF-C; flt4-L; flt4 ligand; vascular endothelial growth factor-related protein
<b>Gene ID</b>	114111
<b>mRNA Refseq</b>	NM_053653
<b>Protein Refseq</b>	NP_446105
<b>UniProt ID</b>	O35757
<b>Chromosome Location</b>	16p11

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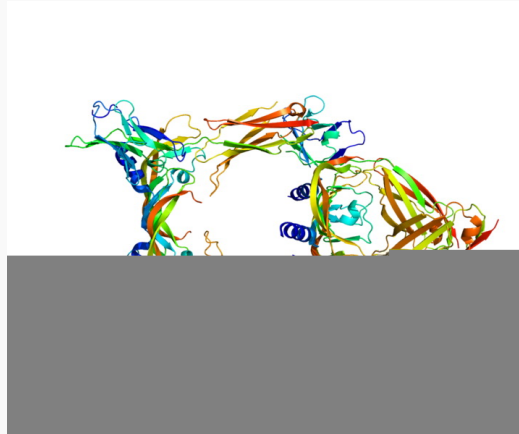
**Pathway**

Bladder cancer;Cytokine-cytokine receptor interaction; Focal adhesion; Hemostasis;Pancreatic cancer; Pathways in cancer; Platelet activation; Plateletdegranulation; Renal cell carcinoma; Response to elevated platelet cytosolicCa<sup>2+</sup>; 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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