

Recombinant Rat Vascular Endothelial Growth Factor C

Cat. No. Vegfc-616R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Vegfc (Vascular Endothelial Growth Factor-C) is a 125 amino acid recombinant protein that lacks the N-terminal and C-terminal extensions and contains only the middle third VEGF homology domain.
Species	Rat
Source	E.coli
Description	The protein encoded by this gene is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) 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.
Biological Activity	Activity of Vegfc will be tested by the stimulation of VEGF-R3 phosphorylation in cells transfected with VEGF-R3. The expected ED ₅₀ is > 200 ng/ml.
Molecular Weight	15.0 kDa
Form	Lyophilized without additives.
Appearance	Lyophilized protein
Endotoxin Level	<0.1 ng/μg

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Reconstitution	Centrifuge the vial prior to opening. Reconstitute in 0.1% acetic acid to a concentration of 0.1-1.0 mg/ml. The solution should be stored at -70°C.
Purity	>90% by SDS-PAGE analyses.
Storage	The lyophilized Vegfc is best-stored at -20°C. Reconstituted Vegfc should be stored in working aliquots at -70°C.
Pathways	Bladder cancer; Cytokine-cytokine receptor interaction; Focal adhesion; Formation of Platelet plug; Hemostasis; Pancreatic cancer; Pathways in cancer; Platelet degranulation; Renal cell carcinoma; Response to elevated platelet cytosolic Ca ²⁺ ; Signaling by VEGF; VEGF binds to VEGFR leading to receptor dimerization; VEGF ligand-receptor interactions; mTOR signaling pathway

GENE INFORMATION

Gene Name	Vegfc vascular endothelial growth factor C [Rattus norvegicus]
Official Symbol	Vegfc
Synonyms	Vegfc; 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

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Chromosome

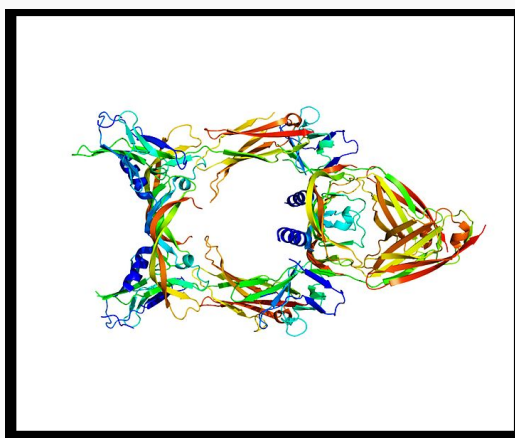
Location

16p11

Function

chemoattractant activity; growth factor activity; vascular endothelial growth factor receptor 3 binding

Rendering based on
PDB 2X1W.



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