

Recombinant Rat Vascular Endothelial Growth Factor C, His-tagged

Cat. No. Vegfc-635R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant ratVegfc, lacking the N- and C-terminal extensions and containing only the middle VEGF homology domain, forms primarily non-covalently linked dimers.
Species	Rat
Source	Insect Cells
Description	Vegfc, also known as Vascular Endothelial Growth Factor Related Protein (VRP), is a recently discovered VEGF growth factor family member that is most closely related to VEGF-D. The rat Vegfc cDNA encodes a pre-pro-protein of 416 amino acid residues.
Form	lyophilized
Purity	> 90%, by SDS-PAGE and visualized by silver stain.
Molecular Weight	36-48 kDa
Range	100-400 ng/ml
Endotoxin Level	< 0.1 ng per µg of Vegfc152S
Biological Activity	5 x 10 ³ units/mg. Measured by its ability to stimulate phosphorylation of the VEGFR-3/FLT-4 receptor in porcine aortic endothelial cells (PAE/FLT-4 cells). The ED ₅₀ for

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this effect is typically 150-300 ng/ml.

Stabilizer

BSA

Reconstitution

Centrifuge vial briefly before opening to bring contents to bottom of vial. The lyophilized Vegfc152S is soluble in water and most aqueous buffers. The lyophilized Vegfc152S 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 -70°C. Reconstituted Vegfc152S should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

Official Symbol

Vegfc

Pathways

Bladder cancer; Cytokine-cytokine receptor interaction; Focal Adhesion; 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; mTOR signaling pathway

GENE INFORMATION

Gene Name

Vegfc vascular endothelial growth factor C [*Rattus norvegicus*]

Synonyms

Vegfc; vascular endothelial growth factor C; VRP; VEGF-C; flt4-L; flt4 ligand; vascular endothelial growth factor-related protein; Vascular endothelial growth factor C; Flt4 ligand; Vascular endothelial growth factor-related protein

Gene ID

114111

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mRNA Refseq	NM_053653
Protein Refseq	NP_446105
UniProt ID	O35757
Chromosome Location	16p11
Function	chemoattractant activity; growth factor activity; vascular endothelial growth factor receptor3 binding
Rendering based on PDB 2X1W.	

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