

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

32-1843: rVEGFC Recombinant Protein

Alternative Name: VEGF-C, Vascular endothelial growth factor C, VRP, Flt4 ligand, Flt4-L.

Description

Source: Sf9, Insect Cells. Vascular Endothelial Growth Factor C Rat Recombinant contains 129 amino acids residues and was fused to a His- tag (6x His) at the C-terminal end. As a result of glycosylation VEGF-C migrates as an 18-24 kDa protein in SDS-PAGE under reducing conditions. VEGF-C, 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 acids residues. It is almost identical to the mouse VEGF-C protein. Similar to VEGF-D, VEGF-C has a VEGF homology domain spanning the middle third of the precursor molecule and long N- and C-terminal extensions. In adults, VEGF-C is highly expressed in heart, placenta, ovary and small intestine. Recombinant rat VEGF-C, lacking the N- and C-terminal extensions and containing only the middle VEGF homology domain, forms primarily non-covalently linked dimers. This protein is a ligand for both VEGFR-2/KDR and VEGFR-3/FLT -4. Since VEGFR-3 is strongly expressed in lymphatic endothelial cells, it has been postulated that VEGF-C is involved in the regulation of the growth and/or differentiation of lymphatic endothelium. Although recombinant rat VEGF-C is also a mitogen for vascular endothelial cells, it is much less potent than VEGF-A.

Product Info

Amount: 10 μg

Purification: Greater than 90.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Content: Each mg of VEGF-C Rat contains 50mg BSA and PBS as buffer.

Lyophilized Vascular Endothelial Growth Factor-C although stable at room temperature for 3 **Storage condition:**Weeks, should be stored desiccated below -18°C. Upon reconstitution VEGF-C should be stored

at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid: DTVKLAAAHYNTEILKSIDNEWRKTQCMPREVCIDVGKEFGAATNTFFKP

PCVSVYRCGGCCNSEGLQCMNTSTGYLSKTLFEITVPLSQGPKPVTISFA

NHTSCRCMSKLDVYRQVHSIIHHHHHH.

Application Note

It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor C in sterile $18M\tilde{A} \square \hat{A} \odot$ -cm H2O not less than $100\tilde{A} \square \hat{A} \mu g/ml$, which can then be further diluted to other aqueous solutions. Measured by its ability to stimulate phosphorylation of the VEGFR-3/FLT-4 receptor in porcine aortic endothelial cells. The ED50 for this effect is typically 200-300ng/ml corresponding to a Specific Activity of 3,334-5,000IU/mg.

