

Vascular Endothelial Growth Factor Related Protein Rat Recombinant

Item Number	rAP-2495
Synonyms	VEGF-C, Vascular endothelial growth factor C, VRP, Flt4 ligand, Flt4-L.
Description	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.
Uniprot Accesion Number	P16612
Amino Acid Sequence	DTVKLAAHYNTEILKSIDNEWRKTQCMPPREVCIDVGKEFGAATNTFFKP PCVSVYRCGGCCN- SEGLQCMNTSTGYLSKTLFEITVPLSQGPKPVTISFA NHTSCRCMSKLDVYRQVHSIIHHHHHH.
Source	Sf9, Insect Cells.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Vascular Endothelial Growth Factor-C although stable at room temperature for 3 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.
Formulation and Purity	Each mg of VEGF-C Rat contains 50mg BSA and PBS as buffer. Greater than 90.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor C in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**