

Vegfc

Recombinant Rat VEGF-C aa C152S Mutation His

Catalog No.	CRV009A	Quantity:	2 µg
	CRV009B		10 µg
	CRV009C		1.0 mg

Alternate Names: VEGF-C, Vascular endothelial growth factor C, VRP, Flt4 ligand, Flt4-L.

Description: VEGF-C aa C152S is a point mutant generated by the replacement of the second conserved Cys residue at aa 152 of the recombinant processed VEGF-C by a Ser residue. VEGF-C C152S is an analog to the human VEGF-C 156 mutant and is only active toward VEGFR-3/FLT-4. However, unlike wild type VEGF-C, the aa 152 mutant is unable to bind to and to activate signaling through VEGFR-2/KDR. VEGF-C C152S was inactive in the vascular permeability assay and did not increase migration of the capillary endothelial cells, indicating that the VEGF-like effects of VEGF-C require VEGFR-2 binding.

Recombinant Rat VEGF-C 152 contains 152 amino acid residues fused to a 6x His tag 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.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Gene ID: 114111

Source: Sf9 Insect Cells.

Formulation: The protein was lyophilized from a concentrated (1 mg/ml) solution with BSA.

Purity: > 90.0% as determined by RP-HPLC and SDS-PAGE.

Biological Activity: Measured by its ability to stimulate phosphorylation of the VEGFR-3/FLT-4 receptor in porcine aortic endothelial cells (PAE/FLT-4 cells). The ED₅₀ for this effect is typically 150 -300 ng/ml, corresponding to a specific activity of 3.3-6.6 KUnits/mg.

Reconstitution: It is recommended to reconstitute the lyophilized Vascular Endothelial Growth Factor C 152 in sterile distilled water at not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Storage & Stability: Lyophilized Vascular Endothelial Growth Factor-C152S should be stored desiccated below -20°C. Upon reconstitution, VEGF-C 152 may be stored at 2-4°C between 2-7 days. For future use, store below -20°C. **Avoid repeated freeze-thaw cycles.**

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