9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

VEGF C Human

Vascular Endothelial Growth Factor C Human Recombinant
GRF0403

Product Overview

Name	VEGF C Human
Description	
Vascular Endothelial Growth Factor C Human Recombinant	
Accession (Primary)	P49767
Synonyms	
VEGF-C, Vascular endothelial growth factor C, VRP, Flt4 ligand, Flt4-L, Vascular endothelial growth factor-related protein, VEGFC.	
Introduction	
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. Human VEGF-C 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 human 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 human VEGF-C is also a mitogen for vascular endothelial cells, it is much less potent than VEGF-A.	
Source	
Sf9, Insect Cells.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Each mg of VEGF-C Human contains 50mg BSA and 1xPBS as buffer.	
Stability	
Lyophilized VEGF-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.	

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Purity

Greater than 90.0% as determined by SDS-PAGE.

Biological Activity

Measured by its ability to induce to the VEGFR-3/FLT-4 receptor phosphorylation inPAEC/VEGFR3 cells and VEGFC induced proliferation of primary HDLEC cells.

Solubility

It is recommended to reconstitute the lyophilized VEGF-C in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

VEGF C Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P49767)