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## Product Data Sheet

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Product Name: VEGFC Human, Sf9

Cat. No.: GP21052

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Vascular Endothelial Growth Factor C; Vascular Endothelial Growth Factor-Related Protein; Flt4-L; VRP; FLT4 Ligand DHM; Flt4Ligand; LMPH1D; VEGF-C; Vascular endothelial growth factor C; VEGF-C; Flt4ligand; Flt4-L; Vascular endothelial growth factor-related protein.		
Amino Acid Sequence	ADPAHYNTEI LKSIDNEWRKTCMPREVCI DVGKEFGVAT NTFFKPPCVS VYRCGGCCNS EGLQCMNTST SYLSKTLFEI TVPLSQGPKP VTISFANHTSCRCMSKLDVY RQVHSIIRRH HHHHH.		
Formulation	VEGFC protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 20% glycerol.		

**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.

**Stability**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

VEGFC Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 125 amino acids (112-227a.a.) and having a molecular mass of 14.2kDa (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). VEGFC is expressed with a6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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