
Product Data Sheet

Product Name: VEGF C Human
 Cat. No.: GP21050
 Batch No.: 1

Product Data

Purity	Greater than 90.0% as determined by SDS-PAGE.	Source	Sf9, Insect Cells.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	VEGF-C; Vascular endothelial growth factor C; VRP; Flt4 ligand; Flt4-L; Vascular endothelial growth factor-related protein; VEGFC.		
Solubility	It is recommended to reconstitute the lyophilized VEGF-C in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Each mg of VEGF-C Human contains 50mg BSA and 1xPBS as buffer.		

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.

Biological Activity

Measured by its ability to induce the VEGFR-3/FLT-4 receptor phosphorylation

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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inPAEC/VEGFR3 cells and VEGFC induced proliferation of primary HDLEC cells.

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.

Background

VEGF-C Human Recombinant- contains 121 amino acids residues including 6 amino acid His-tag fused 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.

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