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

VEGFC Human HEK

Vascular Endothelial Growth Factor C Human Recombinant HEK
GRF0426

Product Overview

Name	VEGFC Human HEK

Description

Vascular Endothelial Growth Factor C Human Recombinant HEK

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

HEK293 cells.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

VEGFC was lyophilized from a 0.2 μM filtered solution of 20mM Tris-HCl and 150mM NaCl, pH 7.2.

Stability

Lyophilized VEGFC although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution VEGFC should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

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Purity

Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

FESGLDLSDAEPDAGEATAYASKDLEEQLRSVSSVDELMTVLYPEYWKMYK

CQLRKGGWQHNREQANLNSRTEETIKFAAAHYNTEILKSIDNEWRKTQCMP

REVCIDVGKEFGVATNTFFKPPCVSVYRCGGCCNSEGQCMNTSTSYLSKTLF

EITVPLSQGPKPVTISFANHTSCRCMSKLDVYRQVHSIIRR VDHHHHHH .

Solubility

It is recommended to reconstitute the lyophilized VEGFC in 1xPBS to a concentration no less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

VEGFC Human HEK is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P49767)