Active Recombinant Human VEGFC Protein (126 aa)

Cat. No. VEGFC-160V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VEGF-C produced in HEK293 cells is a polypeptide chain containing 126 amino acids. A fully biologically active molecule, rhVEGF-C has a molecular mass of 16-19 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Human
Source	HEK293
ProteinLength	126
Description	Vascular endothelial growth factor C (VEGF-C) is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family, is active in angiogenesis, lymphangiogenesis and endothelial cell growth and survival, and can also affect the permeability of blood vessels. VEGF-C is expressed in various tissues, however it is not produced in peripheral blood lymphocytes. It forms cell surface-associated non-covalent disulfide linked homodimers, and can bind and activate both VEGFR-2 (flk1) and VEGFR-3 (flt4) receptors. The structure and function of VEGF-C is similar to those of vascular endothelial growth factor D (VEGF-D).
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Measured in a cell proliferation assay using HMVEC human microvascular endothelial cells. The ED50 for this effect is < 0.5 μg/mL.

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Molecular Mass	16~19 kDa, observed by reducing SDS-PAGE.
AA Sequence	MAHYNTEILKSIDNEWRKTQCMPREVCIDVGKEFGVATNTFFKPPCVSVYRCGGCC NSEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVTISFANHTSCRCMSKLDVYRQVHSI IRR
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Human Vascular Endothelial Growth Factor C remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Vascular Endothelial Growth Factor C should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	VEGFC vascular endothelial growth factor C [Homo sapiens]
Official Symbol	VEGFC
Synonyms	VEGFC; vascular endothelial growth factor C; VRP; VEGF-C; FLT4 ligand DHM; vascular endothelial growth factor-related protein; Flt4-L;
Gene ID	7424
mRNA Refseq	NM_005429

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Protein Refseq	NP_005420
MIM	601528
UniProt ID	P49767

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