

VEGF-C Human HEK293 cells

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: HEK293 cells	RBG10344005	(5 µg)
Species: Human	RBG10344020	(20 µg)
Other names: Vascular endothelial growth factor C, Flt4 ligand	RBG10344100	(100 µg)

Description

VEGF-C, a member of the VEGF/PDGF family of structurally related proteins, is a potent angiogenic cytokine. It promotes endothelial cell growth, promotes lymphangiogenesis, and can also affect vascular permeability. VEGF-C is expressed in various tissues, but is not produced in peripheral blood lymphocytes. It forms cell surfaced-associated, non-covalent, disulfide-linked homodimers, and can bind and activate both VEGFR-2 (flk1) and VEGFR-3 (flt4) receptors. During embryogenesis, VEGF-C may play a role in the formation of the venous and lymphatic vascular systems. Both VEGF-C and VEGF-D are over-expressed in certain cancers, and the resulting elevated levels of VEGF-C or VEGF-D tend to correlate with increased lymphatic metastasis. Recombinant Human VEGF-C is a non-disulfide-linked homodimeric protein consisting of two 13.5 kDa polypeptide chains of 116 amino acid residues. Due to glycosylation, the protein migrates as a 20.0-22.0 kDa band by SDS-PAGE analysis under non-reducing conditions.

Research topic

Animal studies, Cytokines and chemokines and related molecules

Amino Acid Sequence

MAHYNTEILK SIDNEWRTQ CMPREVCIDV GKEFGVATNT FFKPPCVSVY RCGGCCNSEG LQCMNTTSTY LSKTLFEITV
PLSQGPKPVT ISFANHTSCR CMSKLDVYRQ VHSIIRR

Source

HEK293 cells

Purity

95%

Biological Activity

Determined by its ability to support rat Retinal Ganglion Cells (RGC-5) cell growth in low serum media.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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