

Human CellExp VEGF-C, human recombinant protein
VEGFC, Flt4-L, VRP
Catalog # PBV10861r**Specification**

Human CellExp VEGF-C, human recombinant protein - Product infoPrimary Accession
Calculated MW[P49767](#)

The protein is fused with 6×His tag at the C-terminus, has a calculated MW of 15 kDa. The predicted N-terminus is Thr 103. DTT-reduced Protein migrates as 18-23 kDa due to glycosylation. KDa

Human CellExp VEGF-C, human recombinant protein - Additional InfoGene ID
Gene Symbol
Other Names
VEGFC, Flt4-L, VRP**7424**
VEGF-CGene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Target/Specificity
VEGF-C**Human**
HEK 293 cells
SDS-PAGE; ≥97%
HPLC;
Yes**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format

Lyophilized powder

Storage

-20°C; Lyophilized from 0.22 µm filtered solution in PBS. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp VEGF-C, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp VEGF-C, human recombinant protein - Images

Human CellExp VEGF-C, human recombinant protein - Background

Vascular endothelial growth factor C is also known as VEGFC, Flt4-L and VRP; it contains the C-terminal propeptide which has an unusual structure with tandemly repeated cysteine-rich motifs. Upon biosynthesis, VEGFC is secreted as a non-covalent homodimer in an anti-parallel fashion. VEGFC 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. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms that bind and activate VEGFR-3 receptors. Only the fully processed form can bind and activate VEGFR-2 receptors. The structure and function of this protein is similar to those of vascular endothelial growth factor D (VEGF-D). VEGFC may function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Overexpression of VEGF-C causes lymphatics to enlarge possibly facilitates metastasis.

Human CellExp VEGF-C, human recombinant protein - References

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Fitz L.J., et al. Oncogene 15:613-618(1997).
Ota T., et al. Nat. Genet. 36:40-45(2004).