

VEGF-C

Catalog # PVGS1496

Product Information

Primary Accession P49767
Species Human

Sequence Ala112-Arg227, expressed with an N-terminal Met

Purity > 95% as analyzed by SDS-PAGE

Endotoxin Level

Biological Activity Measured in a cell proliferation assay using HMVEC human microvascular

endothelial cells. The ED₅₀ for this effect is

Expression System HEK 293

Formulation Lyophilized after extensive dialysis against PBS.

Reconstitution It is recommended that this vial be briefly centrifuged prior to opening to

bring the contents to the bottom. Reconstitute the lyophilized powder in

ddH₂O or PBS up to 100 ☐g/ml.

Storage & Stability Upon receiving, this product remains stable for up to 6 months at lower than

-70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw

cycles.

Additional Information

Gene ID 7424

Other Names Vascular endothelial growth factor C, VEGF-C, Flt4 ligand, Flt4-L, Vascular

endothelial growth factor-related protein, VRP, VEGFC

Target Background 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).

Protein Information

Name VEGFC

Function Growth factor active in angiogenesis, and endothelial cell growth,

stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in angiogenesis of the venous and

lymphatic vascular systems during embryogenesis, and also in the

maintenance of differentiated lymphatic endothelium in adults. Binds and

activates KDR/VEGFR2 and FLT4/VEGFR3 receptors.

Cellular Location Secreted.

Tissue Location Expressed in the spleen (PubMed:8700872, PubMed:9247316). Expressed in

the lymph node, thymus, appendix and bone marrow (PubMed:9247316). Expressed in the heart, placenta, skeletal muscle, ovary and small intestine (PubMed:8617204, PubMed:8700872) Expressed in the prostate, testis and

colon (PubMed:8700872)

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