

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant VEGF-C, Human

Catalog Number: BK0336-50µg

Source: HEK 293

Quantity: 50µg

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). 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 at GenScript.

Molecular Weight:

16~19 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

Measured in a cell proliferation assay using HMVEC human microvascular endothelial cells. The ED50 for this effect is < 0.5 µg/mL.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MAHYNTEILKSIDNEWRTQCM-
PREVCIDVGKEFGVATNTFFKPPCVSVYR-
CGGCCN-
SEGLQCMNTSTSYLSKTLFEITVPLSQGPKPVTIS
FANHTSCRCMSKLDVYRQVHSIIR

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Human Vascular Endothelial Growth Factor C remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Vascular Endothelial Growth Factor C should be stable up to 1 week at 4 °C or up to 3 months at -20 °C.

Usage:

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