



Recombinant Human Vascular Endothelial Growth Factor C (rhVEGF-C)

Catalog #105-22

Product Description

Recombinant Human VEGF-C is a disulfide-linked homodimeric protein composed of two 13.5 kDa polypeptide chains, each containing 116 amino acid residues. As a member of the PDGF/VEGF family, VEGF-C plays crucial roles in angiogenesis, endothelial cell growth, and blood vessel permeability. It undergoes complex proteolytic processing, resulting in multiple forms with varying receptor affinities. The various processed forms of VEGF-C can bind and activate VEGFR-3 receptors, while only the fully processed form can bind and activate VEGFR-2 receptors. Structurally and functionally similar to vascular endothelial growth factor D (VEGF-D), VEGF-C stimulates lymphangiogenesis and angiogenesis, promotes endothelial cell proliferation and migration, increases blood vessel permeability, plays a role in embryonic development of venous and lymphatic vascular systems, and maintains differentiated lymphatic endothelium in adults.

Specifications

Synonyms:	VEGF-C, VRP
AA Sequence:	AHYNTEILKS IDNEWKRTQC MPREVCIDVG KEFGVATNTF FKPPCVSVYR CGGCCNSEGL QCMNTSTSYL SKTLFEITVP LSQGP KPVTI SFANHTSCRC MSKLDVYRQV HSIIRR
Source:	<i>Pichia pastoris</i>
Purity	> 95%

Quality Control

Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)
Sterility	No microorganisms
Physical Appearance:	Light yellow to white powder

Formulation

Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in 1x PBS with dextran as protectant.

Reconstitution

Reconstitute in sterile distilled water or 1x PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Rev. 1

Shipping and Storage

Gel pack. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.

Usage

rhVEGF-C is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.