

## VEGF Human (121 a.a.), His Tag

**Description:** Vascular Endothelial Growth Factor-121 Human Recombinant produced in E.Coli is a double, non-glycosylated, polypeptide chain (aa 207-327) containing a total of 142 amino acids and having a molecular mass of 16.3 kDa. The VEGF-121 is fused to a 20 amino acid His tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-626

For research use only.

**Synonyms:** Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF, VEGF, MGC70609.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAPMAEGGGQ NHHEVVKFMD  
VYQRSYCHPI ETLVDIFQEY PDEIYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ  
IMRIKPHQGG HIGEMSFLQH NKCECRPKKD RARQEKCDKP RR.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

VEGF-121 His Tag in 20mM TRIS pH-8.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

Vascular endothelial growth factor is an important signaling protein involved in both vasculogenesis and angiogenesis. As its name implies, VEGF activity has been mostly studied on cells of the vascular endothelium, although it does have effects on a number of other cell types (e.g. stimulation monocyte/macrophage migration, neurons, cancer cells, kidney epithelial cells). VEGF mediates increased vascular permeability, induces angiogenesis, vasculogenesis and endothelial cell growth, promotes cell migration, and inhibits apoptosis. In vitro, VEGF has been shown to stimulate endothelial cell mitogenesis and cell migration. VEGF is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy.

**Biological Activity:**

The ED50 for this effect is  $\approx 4.2$  ng/ml. Measured in a cell proliferation assay using NIH-3T3 cell, corresponding to a specific activity of less than 238,095.23 units/mg.

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