

## Recombinant Human VEGF165 Protein

(For Research Use Only)

Vascular Endothelial Growth Factor (VEGF) is a potent mediator of both angiogenesis and vesculogenesis in the fetus and adult. It stimulates proliferation and survival of endothelial cells and promotes angiogenesis and vascular permeability. VEGF is a homodimeric protein secreted by a variety of vascularized tissues. Human recombinant VEGF165 is a 38.2 kDa disulfide-linked homodimeric protein consisting of two 165 amino acid polypeptide chains.

### Product Information

**Catalog number:** 12-0008

**Size:** 10 µg, 50 µg, 100 µg.

**Source:** Escherichia Coli.

**Purity:** Greater than 98%, as determined by SDS-PAGE

**Endotoxin:** < 0.1 ng/µg of VEGF as determined by the LAL assay

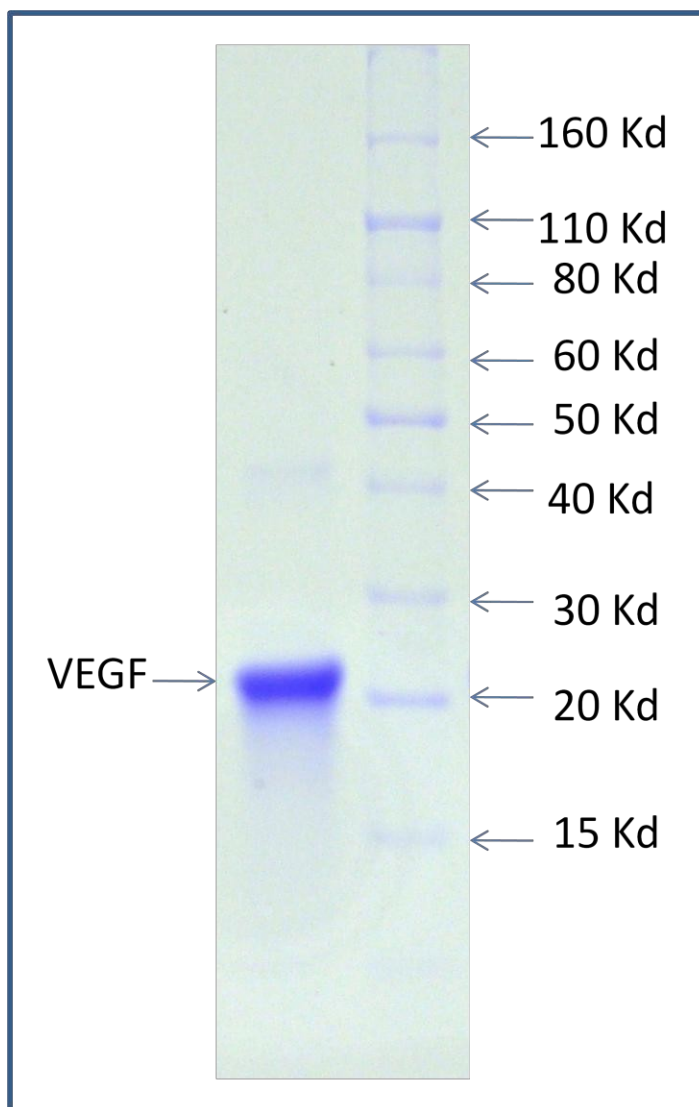
**Bioactivity:** ED50= 1-8 ng/ml as determined by the cell proliferation assay using human umbilical vein endothelial cells (HUVEC).

**Formulation:** lyophilized from a 0.2µm sterile filtered solution in Tris buffer (5 mM Tris pH7.5, 150 mM NaCl) at a concentration of 1.0 mg/ml

**Storage/Stability:** The lyophilized protein is stable at -70°C for up to 12 months. Avoid repeated freeze/thaw cycles.

**Reconstitution:** It is recommended to reconstitute VEGF in sterile H<sub>2</sub>O to yield a stock solution of 0.1 mg/ml of VEGF. Avoid freeze-thaw cycles as it can result in loss of activity.

**SDS Page of Recombinant human VEGF Sample:**



**Figure 1**