

## Recombinant human VEGF-165 (Active,Tag free)

**Cat. Number:** ck0025

**Quantity size:** 10µg / 50ug / 500µg

**Protein Sequence:** 27-191/191aa, Tag free, full length mature protein

**Swiss-Prot:** P15692

**Gene ID:** 7422

**Source:** Human cells derived

**Structure:** Glycosylated homodimer

**Purity:** >95% by SDS-PAGE

**MW:** 39-45kDa

**Endotoxin Level:** <0.5EU/ug

**Formulation:** Lyophilized from a 0.2µm filtered solution in PBS without carrier protein  
Animal and Xeno free

**Activity Assay:** The activity was measured by its ability to stimulate the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells).

**Reconstitution:** Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

**Stability & Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80 °C under sterile conditions after reconstitution.

**Description:** Vascular endothelial growth factor (VEGF) is a potent growth and angiogenic cytokine. It is a member of the PDGF family that is characterized by the presence of eight conserved cysteine residues and a cystine knot structure. Humans express alternately spliced isoforms, and VEGF-165 is the most abundant and potent isoform. VEGF stimulates angiogenesis, vasculogenesis and endothelial cell growth, induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Recombinant human VEGF-165 is a 39-45kDa, disulfide-linked homodimeric protein consisting of two 165 amino acid polypeptide.

**Important Note:** *This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.*