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# 32-18232: Human VEGF165 Protein, hFc Tag

**Uniprot ID :** P15692-4
**Alternative Name :** MVCD1, VEGF, VPF, VEGFA

## Description

Description :Recombinant human VEGF165 Protein with C-terminal human Fc tag
Background: VEGF165 is the most abundant splice variant of VEGF-A. VEGF165 is produced by a number of cells including endothelial cells, macrophages and T cells. VEGF165 is involved in angiogenesis, vascular endothelial cell survival, growth, migration and vascular permeability. VEGF gene expression is induced by hypoxia, inflammatory cytokines and oncogenes. VEGF165 binds to heparan sulfate and is retained on the cell surface and in the extracellular matrix. VEGF165 binds to the receptor tyrosine kinases, VEGFR1 and VEGFR2. VEGF165 is the only splice variant that binds to co-receptors NRP-1 and NRP-2 that function to enhance VEGFR2 signaling. Binding of VEGF165 to VEGFR1 and VEGFR2 leads to activation of the PI3K/AKT, p38 MAPK, FAK and paxillin. VEGF plays a key role in tumor angiogenesis in many cancers.
Description: Recombinant human VEGF165 Protein with C-terminal human Fc tag
Molecular Characterization: VEGF165(Ala27-Arg191) hFc(Glu99-Ala330)
Molecular Weight :The protein has a predicted molecular mass of 45.3 kDa after removal of the signal peptide. The apparent molecular mass of VEGF165-hFc is approximately 35-55 kDa due to glycosylation.
Tag :C-Human Fc tag

## Product Info

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|---|---|
| **Amount :** | 50 µg / 100 µg |
| **Purification :** | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining. |
| **Content :** | Lyophilized from sterile PBS, pH 7.4. Normally 5 % -8% trehalose is added as protectants before lyophilization. |
| **Storage condition :** | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |

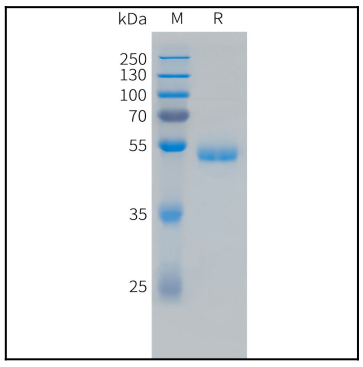



Figure 1. Human VEGF165 Protein, hFc Tag on SDS-PAGE under reducing condition.

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***