

## VEGF165 Protein, Human, Recombinant (His & Avi), Biotinylated V2

### General Information

Synonyms:	vascular endothelial growth factor A
Protein Construction:	Ala27-Arg191
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P15692-4
Molecular Weight:	22.2 kDa (Predicted); 28-35 kDa (reducing conditions), 45-60 kDa (non-reducing conditions)

### QC Testing

Biological Activity:	Immobilized Anti-VEGF165 Antibody at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Human VEGF165, His Tag with the EC50 of 13.7 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Vascular endothelial growth factor (VEGF or VEGF-A), also known as vascular permeability factor (VPF), is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. VEGF165 appears to be the most abundant and potent isoform, followed by VEGF121 and VEGF189.

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481