


## Mouse/Rat VEGF165 Protein

Cat #: PRP1145

Size: 5ug/20ug/100ug/1mg

### Product Information

|   |   |            |   |
|---|---|------------|---|
|   | <b>Product Name:</b> Mouse/Rat VEGF165 Protein                  |            |   |
| <b>REF</b>  | <b>Catalog Number:</b> PRP1145                                  | <b>LOT</b> | <b>Lot Number:</b> Refer to product label |
|   | <b>Purity:</b> >98% as determined by SDS-PAGE                   |            |   |
|  | <b>Storage:</b> Store at -20°C                                  |            | <b>Preparation method:</b> E.coli         |
|   | <b>Shipping:</b> The product is shipped at ambient temperature. |            |   |

**Background:** The vascular endothelial growth factor (VEGF) family currently includes VEGF-A, VEGF-B, VEGF-C, VEGF-D, VEGF-E, and PlGF. VEGF and its receptor system have been shown to be the fundamental regulators in the cell signaling of angiogenesis. Most tumors have the absolute requirement of angiogenesis and VEGF has been described as the most potent angiogenic cytokine linked to this process. To date 5 different isoforms of VEGF have been described. These isoforms are generated as the result of alternative splicing from a single VEGF gene. These various isoforms have been shown to bind to two tyrosine-kinase receptors flt-1 (VEGFR-1) and flk-1/KDR (VEGFR-2), which have been found to be expressed almost exclusively on endothelial cells.

**Sequence:** Amino acid sequence derived from Mouse/Rat VEGF165 Protein (Q00731) (Ala27-Arg190) was expressed with 6×His tag at the C-terminus.

**Protein length:** The protein has a calculated MW of 20.22 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

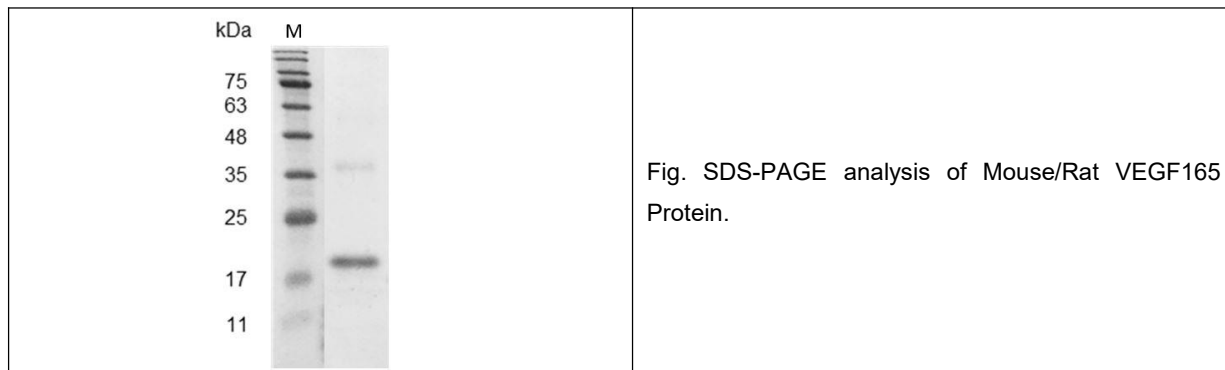
**Biological Activity:** Measure by its ability to induce proliferation in HUVEC cells. The ED<sub>50</sub> for this effect is <3 ng/mL.

**Endotoxin:** <0.1 EU per 1 µg of the protein by the LAL method.

**Formulation:** The protein was lyophilized from a 0.2 µm filtered solution containing PBS, pH 8.0.

**Storage Instructions:** Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10% FBS or 0.1% BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Mouse/Rat VEGF 165 Protein to a concentration of 0.1-1 mg/mL in sterile ddH<sub>2</sub>O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.