

RP01060

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# Recombinant Mouse VEGF-A/VEGF164 Protein

Catalog No.: RP01060 **Recombinant**

## Sequence Information

| Species      | Gene ID | Swiss Prot |
|--------------|---------|------------|
| HEK293 cells | 22339   | Q00731-2   |

### Tags

N-His

### Synonyms

MVCD1;VEGFA;VEGF;VPF;VEGFA ( 164 )

## Product Information

| Source       | Purification                      |
|--------------|-----------------------------------|
| HEK293 cells | ≥ 95 % as determined by SDS-PAGE. |

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

### Basic Information

#### Description

Recombinant Mouse VEGF-A/VEGF164 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala27-Arg190) of mouse VEGF 164 (Accession #NP\_001273986.1.) fused with a 6×His tag at the N-terminus.

#### Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse VEGF164 at 1 μg/mL (100 μL/well) can bind Recombinant Human VEGFR2 with a linear range of 8-30 ng/mL. 2. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED<sub>50</sub> for this effect is typically 0.006-0.022 ng/mL, corresponding to a specific activity of 4.54×10<sup>7</sup>-1.67×10<sup>8</sup> units/mg.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

#### Storage

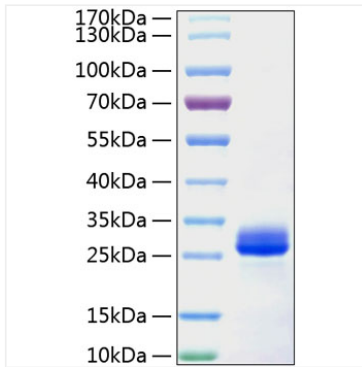
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

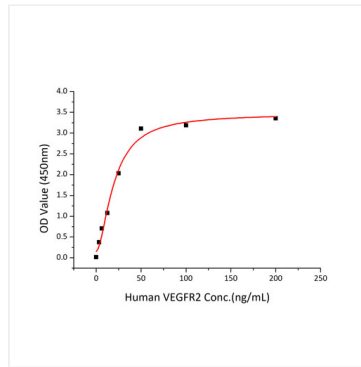
Avoid repeated freeze/thaw cycles.

\* For your safety and health, please wear a lab coat and disposable gloves when handling.

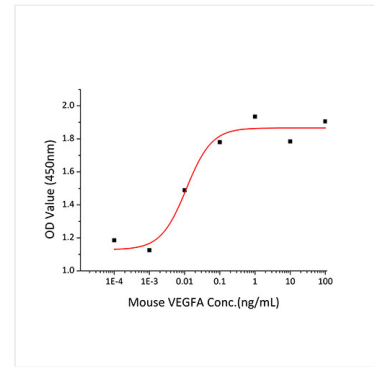
## Validation Data



Recombinant Mouse VEGF-A/VEGF164 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Mouse VEGF164 at 1  $\mu\text{g/mL}$  (100  $\mu\text{L}$ /well) can bind Recombinant Human VEGFR2 with a linear range of 8-30 ng/mL.



Recombinant Mouse VEGF164 promotes the proliferation of human umbilical vein endothelial cells (HUVEC). The  $\text{ED}_{50}$  for this effect is typically 0.006-0.022 ng/mL, corresponding to a specific activity of  $4.54 \times 10^7$ - $1.67 \times 10^8$  units/mg.