

# **Recombinant Mouse VEGF-A/VEGF164 Protein**

Catalog No.: RP01060 Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Mouse 22339 000731-2

**Tags** 

N-His

**Synonyms** 

MVCD1; VEGFA; VEGF; VPF; VEGFA [ 164 [ ]

# **Product Information**

Source Purification
HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

20.12 kDa 25-30 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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  $\mu$ g/mL (100  $\mu$ L/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  $4.54\times10^7$ - $1.67\times10^8$ units/mg.

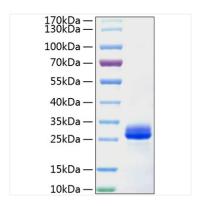
#### Storage

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

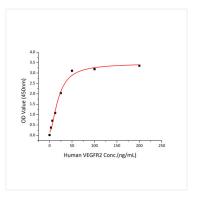
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

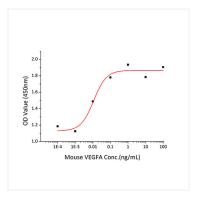
# **Validation Data**



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



Immobilized Recombinant Mouse VEGF164 at 1  $\mu$ g/mL (100  $\mu$ 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 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.