

Recombinant Mouse VEGF-A/VEGF164 Protein

Catalog No.: RP01060 Recombinant

Sequence Information

Species Gene ID Swiss Prot Mouse 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.

Calculated MW Observed MW

20.12 kDa 25-30 kDa

Endotoxin

< 0.1 EU/ μ 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 μ g/mL (100 μ 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 ED₅₀ for this effect is typically 0.006-0.022 ng/mL, corresponding to a specific activity of 4.54×10^7 - 1.67×10^8 units/mg.

Shipping

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

Storage

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

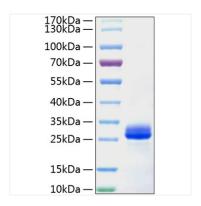
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

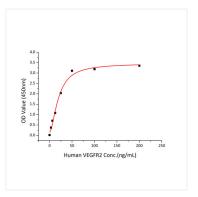
Operational Notes

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

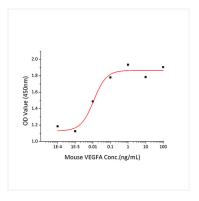
Validation Data



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



Immobilized Recombinant Mouse VEGF164 at 1 μ g/mL (100 μ 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 4.54×10^7 - 1.67×10^8 units/mg.