

Recombinant Mouse VEGF-A/VEGF164 Protein

Catalog No.: RP01060

Sequence Information

Species **Gene ID**
Mouse 22339

Swiss Prot **Tags**
Q00731-2 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/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 free-thaw cycles.

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.

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 ED₅₀ for this effect is typically 0.006-0.022 ng/mL, corresponding to a specific activity of 4.54×10⁷-1.67×10⁸ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

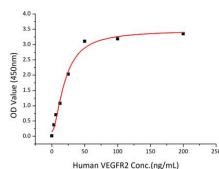
Contact

☎ | 400-999-6126

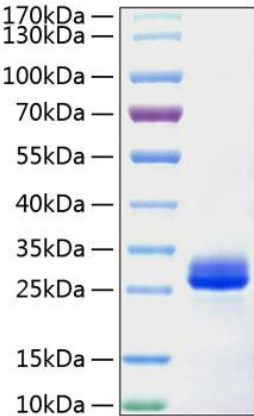
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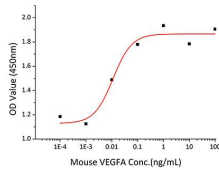
Validation Data



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.



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



Recombinant Mouse VEGF164 promotes the proliferation of 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 4.54×10⁷-1.67×10⁸units/mg.