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# Produktinformation

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- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
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- Gefahrgutzuschlag
- Expressversand


**SZABO-SCANDIC HandelsgmbH**

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

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Datasheet for 010-001-B99-0010

# rMouse VEGF-165 Protein

## Overview

| | |
|---|---|
| **Description:** | Mouse Vascular Endothelial Growth Factor-165 Recombinant Protein - 010-001-B99-0010 |
| **Item No.:** | 010-001-B99-0010 |
| **Size:** | 10 µg |
| **Applications:** | SDS-PAGE, Cellular Assay |
| **Origin:** | Mouse |
| **Expressed in:** | E. coli |

## Product Details

| | |
|---|---|
| **Background:** | Vascular Endothelial Growth Factor-A (VEGF-A) was originally isolated from tumor cells and is produced by a wide variety of cell types. In addition to stimulating vascular growth and vascular permeability, VEGF-A may play a role in stimulating vasodilation via nitric oxide-dependent pathways. VEGF-A has several variants, VEGF-165 being the most abundant. Rat and bovine VEGF are one amino acid shorter than the human factor, and the bovine and human sequences show a homology of 95%. Recombinant mouse VEGF-165 is a non-glycosylated, disulfide-linked homodimer, containing 165 amino acids, with a molecular weight of 39 kDa. |
| **Synonyms:** | VEGF-A, glioma-derived endothelial cell mitogen, Vascular permeability factor (VPF) |
| **Species of Origin:** | Mouse |
| **Expressed in:** | E. coli |
| **Type:** | Recombinant Protein |
| **Low Endotoxin:** | Yes |

## Target Details

| | |
|---|---|
| **Gene Name:** | Vegfa |
| **Purity/Specificity:** | Vascular Endothelial Growth Factor-165 purity was determined to be greater than 95% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE. |
| **Relevant Links:** | • UniProtKB - Q00731-2 |

## Application Details

| | |
|---|---|
| **Tested Applications:** | SDS-PAGE |
| **Suggested Applications:** | Cellular Assay (Based on references) |
| **Application Note:** | Endothelial Growth Factor-165 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Endothelial Growth Factor-165 in immunological assays. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **Other:** | Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: The activity is determined by the dose-dependent proliferation of human umbilical vein endothelial cells (HUVEC) and is typically 1-5 ng/mL. |

## Formulation

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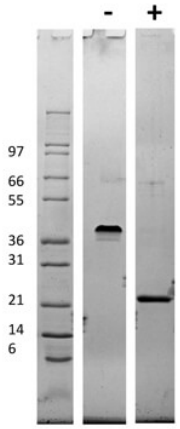
|---|---|
| **Physical State:** | Lyophilized |
| **Buffer:** | 0.1% Trifluoroacetic acid |
| **Preservative:** | None |
| **Stabilizer:** | None |
| **Reconstitution Volume:** | 10µl (10-100µl) |
| **Reconstitution Buffer:** | Restore with deionized water (or equivalent) |

## Shipping & Handling

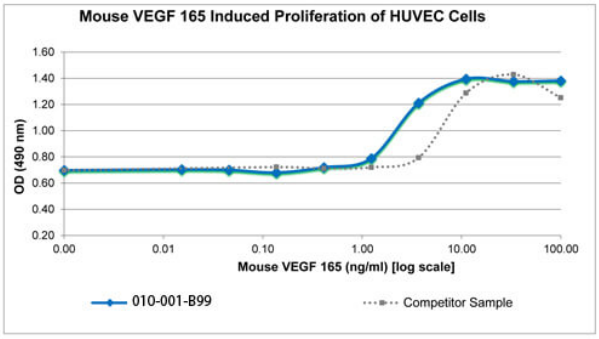
| | |
|---|---|
| **Shipping Condition:** | Ambient |
| **Storage Condition:** | Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature. |
| **Expiration:** | Expiration date is six (6) months from date of receipt. |

## Images




**SDS-PAGE**

SDS-PAGE of Mouse Vascular Endothelial Growth Factor-165 Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Mouse VEGF-165 in non-reducing conditions (-). Lane 3: 1 µg Mouse VEGF-165 in reducing conditions (+). Mouse VEGF-165 is predicted to be a homodimer that has a predicted MW of 39 kDa.




**SDS-PAGE**

Bioactivity of Mouse Vascular Endothelial Growth Factor-165 Recombinant Protein. Serial dilutions of Murine VEGF165, starting at 100 ng/mL, were added to HUVECs. After 92 hours, cell proliferation was measured and the linear portion of the curve was us used to calculate the ED50. The ED50 of Murine VEGF165 is 1.9-2.8 ng/mL. This value is comparable to the typical expected range of 0.8-4 ng/mL.

## Disclaimer