



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

**Datasheet for 012-001-B99-0010**  
**rRat VEGF-165 Protein****Overview**

<b>Description:</b>	Rat Vascular Endothelial Growth Factor-165 Recombinant Protein - 012-001-B99-0010
<b>Item No.:</b>	012-001-B99-0010
<b>Size:</b>	10 µg
<b>Applications:</b>	SDS-PAGE, Cellular Assay
<b>Origin:</b>	Rat
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	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 vasodilatation 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 rat VEGF-165 is a disulfide linked homodimer, containing two 165 amino acids chains, with a total molecular weight of 38.8 kDa.
<b>Synonyms:</b>	VEGF-A, glioma-derived endothelial cell mitogen, Vascular permeability factor (VPF)
<b>Species of Origin:</b>	Rat
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	Vegfa
<b>Purity/Specificity:</b>	Vascular Endothelial Growth Factor-165 purity was determined to be greater than 97% as determined by HPLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P16612-2</a></li></ul>

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Suggested Applications:</b>	Cellular Assay (Based on references)
<b>Application Note:</b>	Endothelial Growth Factor-165 Recombinant Protein has been tested by SDS-PAGE and bioactivity and is suitable as a control for polyclonal or monoclonal anti-Endothelial Growth Factor-165 in immunological assays.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the dose-dependent induced proliferation of Human umbilical vein endothelial cells (HUVECs) and is typically 4.0-8.0 ng/mL.

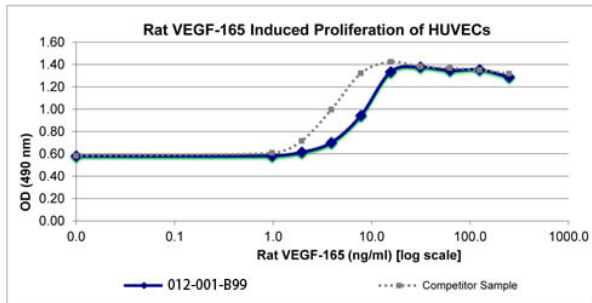
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	0.01 M Sodium Phosphate, pH 7.5
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	10 $\mu$ l (10-100 $\mu$ l)
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

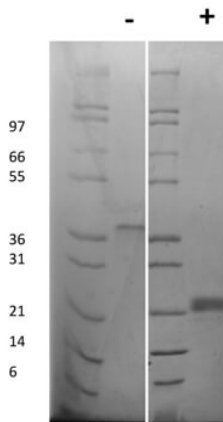
## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	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.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Images


**SDS-PAGE**

Bioactivity of Rat Vascular Endothelial Growth Factor-165 Recombinant Protein. Serial dilutions of Rat VEGF165, starting at 250 ng/mL, were added to HUVECs. After 87 hours, cell proliferation was measured and the linear portion of the curve was used to calculate the ED50. The ED50 of Rat VEGF165 is 5.9-8.9 ng/mL. This value is comparable to the typical expected range of 4-8 ng/mL.


**SDS-PAGE**

SDS-PAGE of Rat Vascular Endothelial Growth Factor-165 Recombinant Protein. Lane 1: 1 µg Rat VEGF-165 in non-reducing conditions (-). Lane 2: Molecular weight marker. Lane 3: 1 µg Rat VEGF-165 in reducing conditions (+). Rat VEGF-165 is predicted to be a homodimer with a total MW of 38.8 kDa.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.