

# 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

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# **DATA SHEET**

### GFH44AF

# Recombinant Human VEGF-165 (Animal-Free)

### Description

Vascular Endothelial Growth Factor A (VEGF-A) is produced by a wide variety of cell types, including tumor and vascular cells. VEGF-A is a mediator of vascular growth, vascular permeability, and plays a role in stimulating vasodilation via nitric oxide-dependent pathways. VEGF-A has several alternatively spliced isoforms, with VEGF-165 being the most abundant. The VEGF-165 isoform is a secreted protein that acts on receptors VEGFR-1 and VEGFR-2 to modulate endothelial cell proliferation and angiogenesis.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length166 / 332 aaMolecular Weight19.3 / 38.6 kDaSourceE. coliAccession NumberP15692-4

**Purity** ≥95% determined by reducing and non-reducing SDS-PAGE

#### **Specifications**

Alternative Names Vascular Endothelial Growth Factor, VEGF165, VEGF-A, VPF, glioma-derived endothelial cell mitogen

Biological Activity Human VEGF-165 (Animal-Free) is fully biologically active when compared to standard. The activity is

determined by the proliferation of HUVEC cells and it is typically less than 10 ng/ml. This corresponds to an

expected specific activity of 1 x 105 units/mg.

Endotoxin Level ≤1.00 EU/µg as measured by kinetic LAL

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

AA Sequence MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG

CCNDEGLECV PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQENPCGP

CSERRKHLFV QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR

#### **Preparation and Storage**

**Reconstitution**Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized

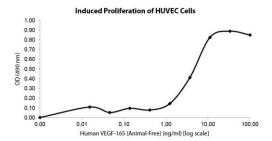
product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.

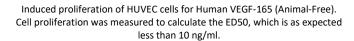
Stability and Storage 12 months from date of receipt when stored at -20°C to -80°C as supplied.

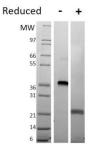
1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

#### Data







Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 µg of protein was loaded in each lane. Human VEGF-165 has a predicted Mw of 38.6 kDa.