

# Product Information

## Recombinant human VEGF 165 protein

Catalog Number: IBATGP1248



### PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

207-371aa

**UniProt No.**

P15692

**NCBI Accession No.**

NP\_001020539

**Alternative Names**

Vascular endothelial growth factor A isoform d, VPF, VEGF, VEGF-A

### PRODUCT SPECIFICATION

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**Molecular Weight**

21.4 kDa (186aa) conformed by MALDI-TOF

**Concentration**

0.25mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) 5mM DTT, 50 % glycerol, 200mM NaCl, 2mM EDTA

**Purity**

> 90% by SDS-PAGE

**Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### BACKGROUND

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**Description**

Vascular endothelial growth factor (VEGF) is homodimeric, heparin-binding glycoprotein involved in both angiogenesis and vasculogenesis. VEGF is expressed as multiple alternately spliced isoforms of VEGF121, 165, 189 and 206. VEGF binds to the receptor tyrosine kinases VEGF R1 (Flt-1) and VEGF R2 (KDR/Flk-1) to activate signal transduction and regulate both physiological and pathological angiogenesis. Recombinant human

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA

Phone: (888) 523-1246

Fax: (763) 780-2988

Email: [info@ibl-america.com](mailto:info@ibl-america.com)

Web: [www.ibl-america.com](http://www.ibl-america.com)

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VEGF165 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>APMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP  
SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQENPCGP CSERRKHLFV  
QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR

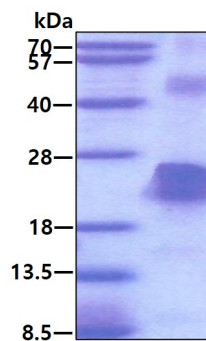
### General References

Yasuji ueda., et al. (2004) Cancer Chemother Pharmacol. 54(1):16-24.

Neufeld G., et al. (1999) FASEB J. 13(1):9-22.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)