

# Recombinant human VEGF 165 protein

Catalog Number: ATGP2873

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

27-191aa

### UniProt No.

P15692

### NCBI Accession No.

NP\_001165097

### Alternative Names

Vascular endothelial growth factor A, Vascular endothelial growth factor A, MVCD1, VEGF, VPF

## PRODUCT SPECIFICATION

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### Molecular Weight

19.9 kDa (171aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) 30% glycerol, 1mM DTT, 0.1mM PMSF

### Purity

> 85% 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 A, also known as VEGF, is growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. This protein binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145.

## Recombinant human VEGF 165 protein

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Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth. Recombinant human VEGF165 protein, fused to His-tag at C-terminus, was expressed in insect cells using baculovirus expression system and purified by using conventional chromatography techniques.

### Amino acid Sequence

APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI  
MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC  
DKPRR<HHHHH H>

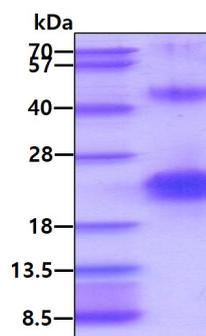
### General References

Woolard J., et al. (2004) Cancer Res. 64:7822-7835.

Dixelius J., et al. (2006) Cancer Res. 66:2089-2097.

## DATA

### SDS-PAGE



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