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# **Recombinant mouse VEGF 120/VEGFA protein**

Catalog Number: ATGP0389

## **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

27-146aa

#### UniProt No.

000731-3

#### **NCBI Accession No.**

NP 001020428.1

#### **Alternative Names**

Vascular endothelial growth factor A isoform 3, Vegf-a, Vegf120, Vpf

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

16.3 kDa (141aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

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

## **Biological Activity**

Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED50 range  $\leq$  15ng/ml.

## Tag

His-Tag

## **Application**

SDS-PAGE, Bioactivity

## **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**



# **Recombinant mouse VEGF 120/VEGFA protein**

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## **Description**

VEGF-A, also known as vascular endothelial growth factor, belong to the VEGF family that mediate angiogenesis. This protein is produced by diverse cell types, including aortic vascular smooth muscle cells, keratinocytes, macrophages and many tumor cells. VEGF-A has important roles in mammalian vascular development and in diseases involving abnormal growth of blood vessels such as tumor-related angiogenesis. Recombinant VEGF-A protein was expressed in E. coli and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

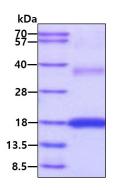
<MGSSHHHHHH SSGLVPRGSH M>APTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKCDKPR R

#### **General References**

Gerber H., et al. (2002) Nature. 417: 954-958. Shibuya M., et al. (2006) J Biochem Mol Biol. 39:469-478.

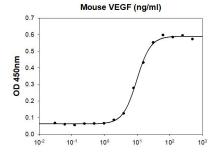
## **DATA**

#### **SDS-PAGE**



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

## **Biological Activity**



Mouse VEGF in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED50 range  $\leq$  15ng/ml.

