

# Recombinant mouse VEGFA protein (Active) ab185265

**2 References**   **3 图像**

### 描述

产品名称	重组小鼠VEGFA蛋白(Active)
生物活性	<p>Measured in a cell proliferation assay using Human umbilical vein endothelial cells ( HUVEC ). The ED50 for this effect is typically 3.5 ng/ml.</p> <p>Measured by its binding ability in a functional ELISA. Immobilized ab185265 at 2 µg/mL (100 µL/well) can bind VEGFR1/R2-Fc with a linear range of 0.6-2.5 ng/mL.</p>
纯度	<p>&gt; 95 % SDS-PAGE.</p> <p>&gt;95% as determined by SEC-HPLC.</p>
内毒素水平	< 1.000 Eu/µg
表达系统	HEK 293 cells
Accession	<b><u>Q00731-2</u></b>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Mouse
预测分子量	19 kDa
氨基酸	27 to 190
额外的序列信息	Mature form. Isoform VEGF-1 or VEGF 164. AAB22253.1

### 技术指标

Our **Abpromise guarantee** covers the use of **ab185265** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Functional Studies
	SDS-PAGE
形式	Lyophilized

### 制备和贮存

稳定性和存储	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).
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pH: 7.40

Constituents: 97% PBS, 3% Trehalose

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## 复溶

Reconstitute with sterile deionized water to a concentration of 200 µg/ml.

## 常规信息

### 功能

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. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.

### 组织特异性

Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed.

### 疾病相关

Defects in VEGFA are a cause of susceptibility to microvascular complications of diabetes type 1 (MVCD1) [MM:603933]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.

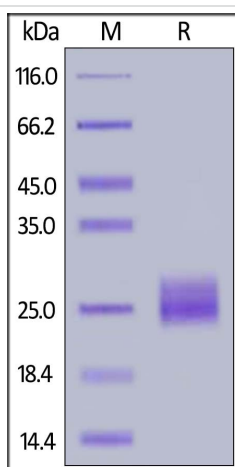
### 序列相似性

Belongs to the PDGF/VEGF growth factor family.

### 细胞定位

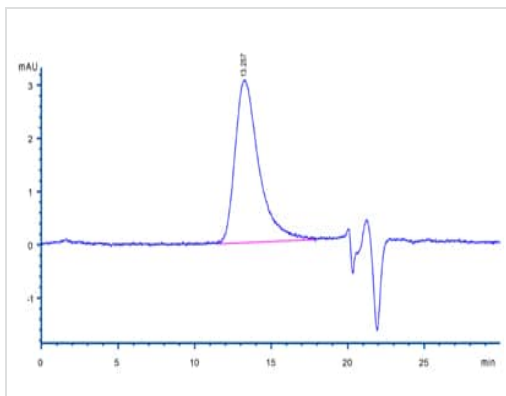
Secreted. VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a significant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular matrix, although it may be released as a soluble form by heparin, heparinase or plasmin.

## 图片



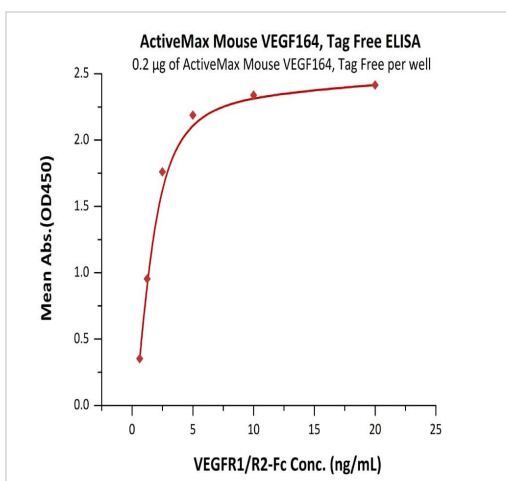
ab185265 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SDS-PAGE - Recombinant mouse VEGFA protein  
(Active) (ab185265)



The purity of ActiveMax® Mouse VEGF164 was greater than 95% as determined by SEC-HPLC.

Functional Studies - Recombinant mouse VEGFA protein (Active) (ab185265)



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Functional Studies - Recombinant mouse VEGFA protein (Active) (ab185265)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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