

# Recombinant mouse VEGFA protein (Active) ab185265

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### 製品の詳細

製品名	Recombinant mouse VEGFA protein (Active)
生理活性	Measured in a cell proliferation assay using Human umbilical vein endothelial cells ( HUVEC ). The ED50 for this effect is typically 3.5 ng/ml.  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.
精製度	> 95 % SDS-PAGE. >95% as determined by SEC-HPLC.
エンドトキシン・レベル	< 1.000 Eu/µg
発現系	HEK 293 cells
アクセッション番号	<b><u>Q00731-2</u></b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Mouse
予測される分子量	19 kDa
領域	27 to 190
配列の追加情報	Mature form. Isoform VEGF-1 or VEGF 164. AAB22253.1

### 特性

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.

アプリケーション	Functional Studies SDS-PAGE
製品の状態	Lyophilized

### 前処理および保存

**保存方法および安定性** 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).

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.

## 再構成

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

## 関連情報

### 機能

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.

### 組織特異性

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

### 関連疾患

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.

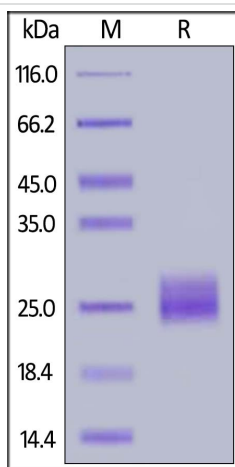
### 配列類似性

Belongs to the PDGF/VEGF growth factor family.

### 細胞内局在

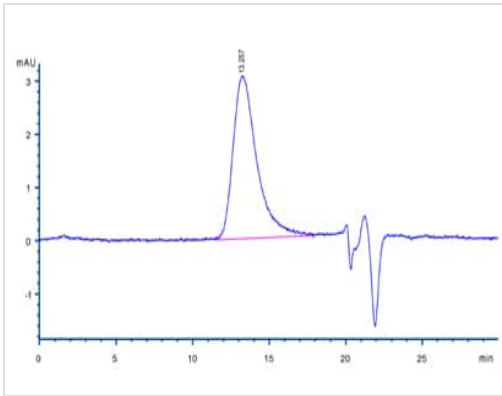
Secreted. VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a significant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular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

## 画像



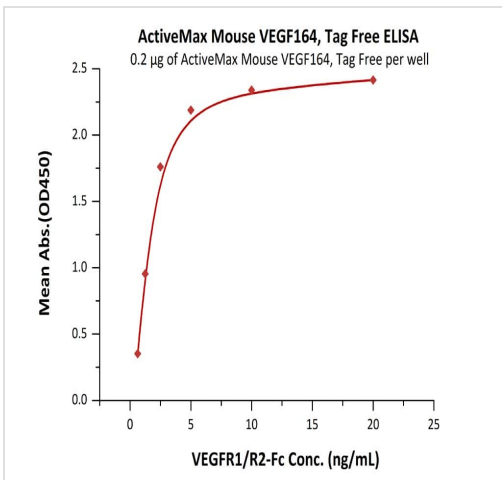
ab185265 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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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