

## Product datasheet

# Recombinant human VEGF189 protein ab106307

### 製品の概要

製品名	Recombinant human VEGF189 protein
タンパク質長	Full length protein

### 製品の詳細

由来	Recombinant
由来	Escherichia coli
アミノ酸配列	
アクセッション番号	<a href="#">P15692</a>
生物種	Human
配列	APMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPS CVPLMRCGGCCNDEGLECVPTTEESNITMQIMRIKPHQGQHIGEMSFLQHN KCECRPKKDRARQEKKSVRGKGGKQKRKRKKSRYKSWSVPCGPCSERRKH LFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR
分子量	42 kDa
領域	27 to 232
配列の追加情報	Mature protein without signal peptide.

### 特性

Our [Abpromise guarantee](#) covers the use of **ab106307** in the following tested applications.

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

生理活性	Measured by the stimulation of cell proliferation in human umbilical vein endothelial cells in the range of 2-20 ng/ml.
アプリケーション	Functional Studies SDS-PAGE
エンドトキシン・レベル	< 0.100 Eu/μg
精製度	> 98 % SDS-PAGE. > 98% by SDS-PAGE and visualised by silver stain.
製品の状態	Lyophilised

## 前処理および保存

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### 保存方法および安定性

Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C long term.

Preservative: None

Constituents: 50mM Acetic acid

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

### 再構成

Should be reconstituted in PBS or medium containing at least 0.1% human or bovine serum albumin to a concentration not lower than 50 µg/ml.

## 関連情報

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### 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) [MIM: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.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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