

## Product datasheet

# Recombinant Human VEGFB protein ab179970

[1 References](#) [2 Images](#)

### Description

<b>Product name</b>	Recombinant Human VEGFB protein	
<b>Purity</b>	> 90 % SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/μg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<a href="#">P49765</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	PVSQPDAPGHQRKVVSWIDVYTRATCQPREVVVPLTVEL MGTVAKQLVPS CVTVQRCGGCCPDDGLECVPTGQHQVRMQILMIRYPSSQ LGEMSLEEHSQ CECRPKKKDSAVKPDRAATPHHRPQPRSVPGWDSAPG APSPADITHPTPA PGPSAHAAPSTTSALTPGAAAAADAAASSVAKGGA	
<b>Predicted molecular weight</b>	20 kDa including tags	
<b>Molecular weight information</b>	The protein migrates as 15 kDa and 30-35 kDa under reducing condition.	
<b>Amino acids</b>	22 to 207	
<b>Tags</b>	His tag C-Terminus	
<b>Additional sequence information</b>	Mature form.	

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab179970** in the following tested applications.

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

<b>Applications</b>	ELISA
	SDS-PAGE
<b>Form</b>	Lyophilized

## Preparation and Storage

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### Stability and Storage

Shipped at 4°C. Store at 4°C prior to reconstitution. 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: 95% PBS, 5% Trehalose

Lyophilized from 0.22 µm filtered solution.

### Reconstitution

Reconstitute with sterile deionized water to a concentration of 50 µg/ml.

## General Info

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### Function

Growth factor for endothelial cells. VEGF-B167 binds heparin and neuropilin-1 whereas the binding to neuropilin-1 of VEGF-B186 is regulated by proteolysis.

### Tissue specificity

Expressed in all tissues except liver. Highest levels found in heart, skeletal muscle and pancreas.

### Sequence similarities

Belongs to the PDGF/VEGF growth factor family.

### Post-translational modifications

VEGF-B186 is O-glycosylated.

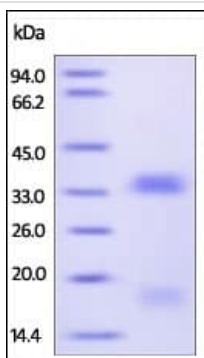
### Cellular localization

Secreted. Secreted but remains associated to cells or to the extracellular matrix unless released by heparin.

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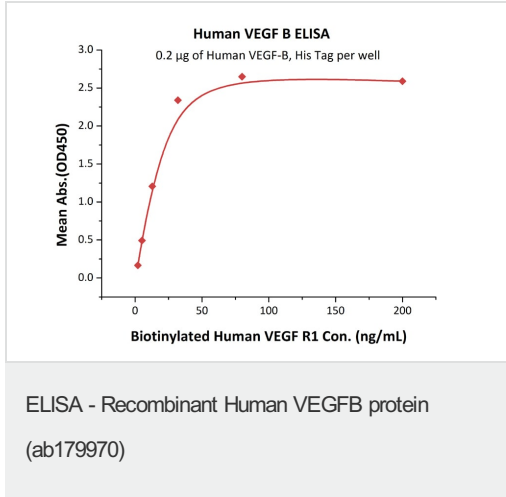
## Images

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SDS-PAGE - Recombinant Human VEGFB protein  
(ab179970)

SDS-PAGE analysis of reduced ab179970 stained overnight with Coomassie Blue. As a result of glycosylation, DTT-reduced protein migrates as 15-18 kDa and non-reduced protein migrates as 33-35 kDa.



Immobilized ab179970 at 2 µg/mL (100 µL/well) can bind Biotinylated Human VEGF R1 with a linear range of 2-32 ng/mL.

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

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