

Datasheet for ABIN5955009

## FLT1 Protein (AA 27-756) (His tag,AVI tag,Biotin)



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### 3 Images

#### Overview

Quantity:	200 µg
Target:	FLT1
Protein Characteristics:	AA 27-756
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FLT1 protein is labelled with His tag,AVI tag,Biotin.

#### Product Details

Sequence:	AA 27-756
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

#### Target Details

Target:	FLT1
Alternative Name:	VEGF R1 ( <a href="#">FLT1 Products</a> )
Background:	Vascular endothelial growth factor receptor 1 (VEGFR1) is also known as Fms-like tyrosine

## Target Details

kinase 1 (FLT-1), Tyrosine-protein kinase receptor FLT, is a single-pass type I membrane protein and secreted protein which belongs to the protein kinase superfamily, Tyr protein kinase family and CSF-1/PDGF receptor subfamily. VEGFR1 is detected in normal lung, but also in placenta, liver, kidney, heart and brain tissues and specifically expressed in most of the vascular endothelial cells, and also expressed in peripheral blood monocytes. VEGFR1 acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. VEGFR1 may play an essential role as a negative regulator of embryonic angiogenesis by inhibiting excessive proliferation of endothelial cells. VEGFR1 can promote endothelial cell proliferation, survival and angiogenesis in adulthood.

Molecular Weight: 85.9 kDa

NCBI Accession: [NP\\_002010](#)

Pathways: [RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals](#)

## Application Details

Comment: Ready-to-use Avitag<sup>TM</sup> biotinylated protein:  
The product is exclusively produced using the Avitag<sup>TM</sup> technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

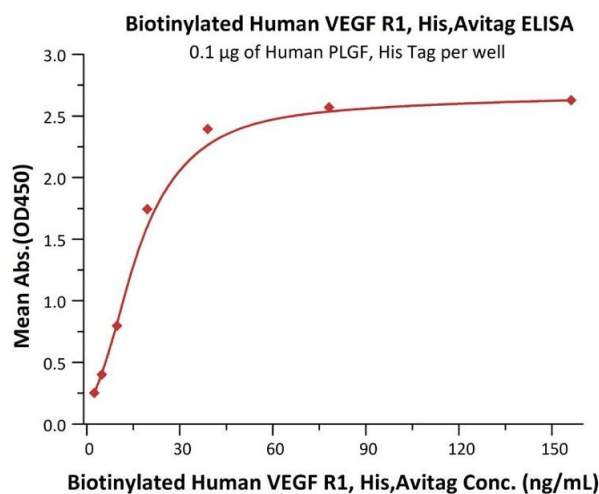
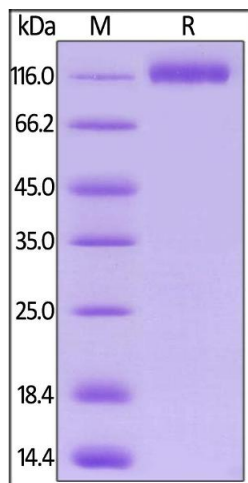
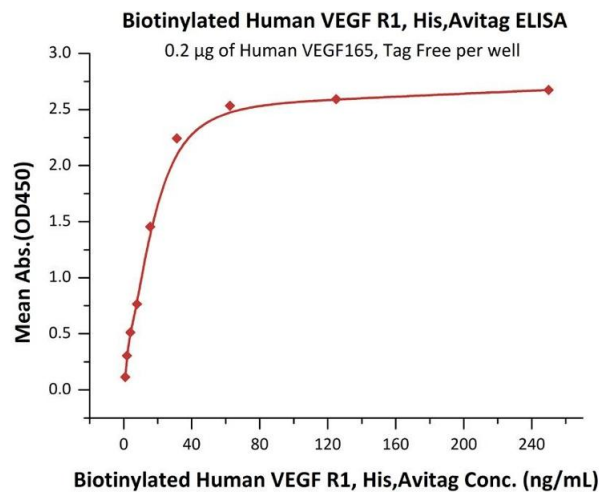
Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.



#### ELISA

**Image 1.** Immobilized Human VEGF165, Tag Free (ABIN2181903,ABIN2693608,ABIN3071747) at 2 µg/mL (100 µL/well) can bind Biotinylated Human VEGF R1, His,Avitag (ABIN5955009,ABIN6253629) with a linear range of 1-31 ng/mL (QC tested).

#### SDS-PAGE

**Image 2.** Biotinylated Human VEGF R1, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .

#### ELISA

**Image 3.** Immobilized Human PLGF, His Tag (ABIN2181648,ABIN2181647) at 1 µg/mL (100 µL/well) can bind Biotinylated Human VEGF R1, His,Avitag (ABIN5955009,ABIN6253629) with a linear range of 2-20 ng/mL (Routinely tested).