

Datasheet for ABIN7275836

FLT1 Protein (His-Avi Tag,Biotin)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	FLT1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FLT1 protein is labelled with His-Avi Tag,Biotin.

Product Details

Sequence:	Ser27-Asn756
Purity:	> 95% as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human VEGF165 at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human VEGF R1, His Tag with the EC50 of 26.9ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	FLT1
Alternative Name:	VEGF R1 (FLT1 Products)
Background:	FLT, FLT1, Flt-1, FRT, VEGF R1, VEGFR1,VEGFR1 (vascular endothelial growth factor receptor 1), also called Flt-1 (Fms-like tyrosine kinase), is a 180 kDa type I transmembrane glycoprotein

Target Details

in the class III subfamily of receptor tyrosine kinases (RTKs). yrosine-protein kinase that 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. May play an essential role as a negative regulator of embryonic angiogenesis by inhibiting excessive proliferation of endothelial cells.

Molecular Weight: 85.1 kDa. Due to glycosylation, the protein migrates to 100-120 kDa based on Tris-Bis PAGE result.

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

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

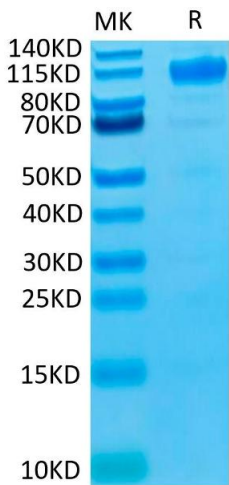
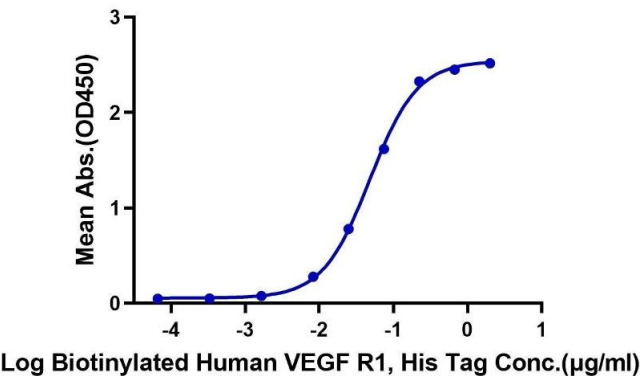
Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Storage: 4 °C, -80 °C

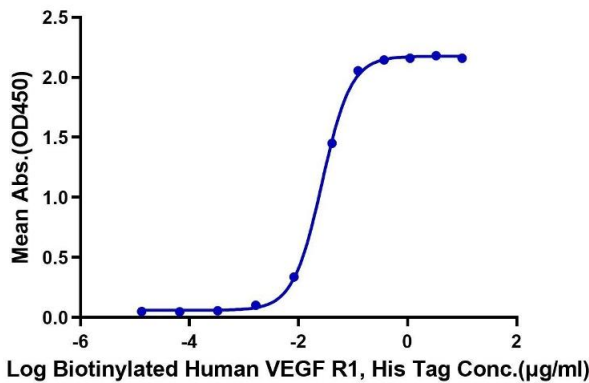
Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months

Biotinylated Human VEGF R1, His Tag ELISA
0.05µg Human PGF, hFc Tag Per Well



Biotinylated Human VEGF R1, His Tag ELISA
0.1µg Human VEGF165, No Tag Per Well



ELISA

Image 1. Immobilized Human PGF, hFc Tag at 0.5 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Human VEGF R1, His Tag with the EC50 of 48 ng/mL determined by ELISA.

SDS-PAGE

Image 2. Biotinylated Human VEGF R1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

ELISA

Image 3. Immobilized Human VEGF165 at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human VEGF R1, His Tag with the EC50 of 26.9 ng/mL determined by ELISA.