

Datasheet for ABIN7275834

VEGFR2/CD309 Protein (AA 20-764) (mFc Tag,Biotin)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µg
Target:	VEGFR2/CD309 (VEGFR2)
Protein Characteristics:	AA 20-764
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VEGFR2/CD309 protein is labelled with mFc Tag,Biotin.

Product Details

Purpose:	Biotinylated Human VEGF R2/KDR Protein (Primary Amine Labeling)
Sequence:	Ala20-Glu764
Characteristics:	Recombinant Biotinylated Human VEGF R2/KDR Protein (Primary Amine Labeling) is expressed from HEK293 with mFc (IgG1) tag at the C-Terminus.It contains Ala20-Glu764.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human VEGF165, No Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human VEGF R2, mFc Tag with the EC50 of 0.14µg/ml determined by ELISA. See testing image for detail.

Target Details

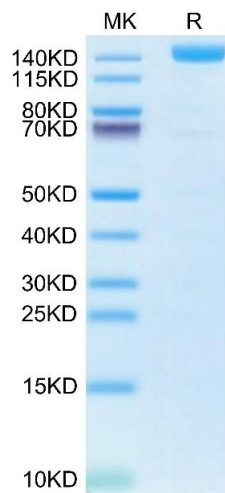
Target:	VEGFR2/CD309 (VEGFR2)
Alternative Name:	VEGF R2 (VEGFR2 Products)
Background:	Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. The tyrosine kinase receptor vascular endothelial growth factor receptor 2 (VEGFR2) is a key regulator of angiogenesis.
Molecular Weight:	110 kDa. Due to glycosylation, the protein migrates to 135-160 kDa based on Tris-Bis PAGE result.
Pathways:	RTK Signaling , Glycosaminoglycan Metabolic Process , Signaling Events mediated by VEGFR1 and VEGFR2 , Growth Factor Binding , Regulation of long-term Neuronal Synaptic Plasticity , VEGF Signaling

Application Details

Restrictions:	For Research Use only
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Handling

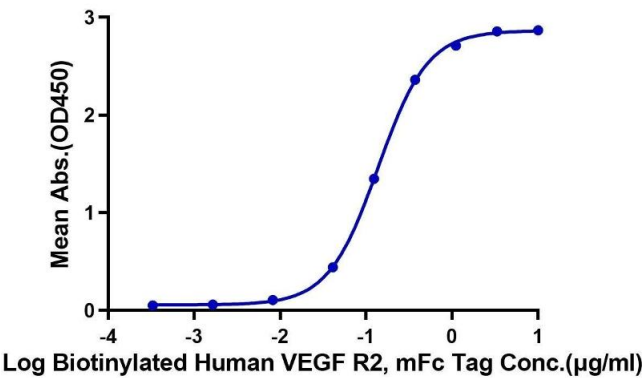
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

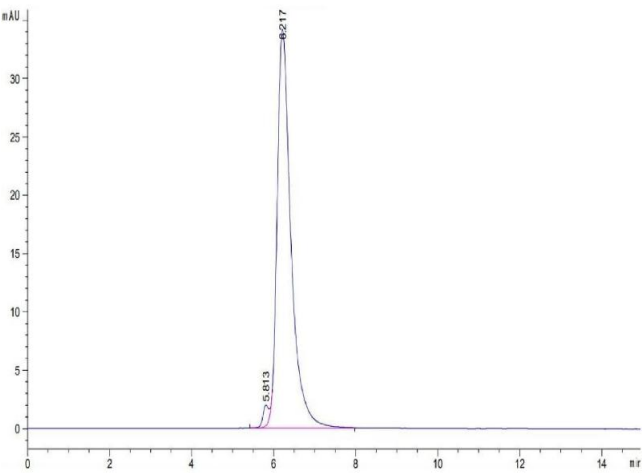
Image 1. Biotinylated Human VEGF R2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Biotinylated Human VEGFR2, mFc Tag ELISA
0.2µg Human VEGF165, No Tag Per Well



ELISA

Image 2. Immobilized Human VEGF165, No Tag at 2 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Human VEGF R2, mFc Tag with the EC50 of 0.14 µg/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Biotinylated Human VEGF R2 is greater than 95 % as determined by SEC-HPLC.