Datasheet for ABIN7013362

VEGFD Protein (AA 93-201) (His tag)

2 Images

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Overview

Quantity:	100 µg
Target:	VEGFD (Figf)
Protein Characteristics:	AA 93-201
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This VEGFD protein is labelled with His tag.

Product Details

Sequence:	AA 93-201
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 13 kDa. The protein migrates as 18-20 kDa under reducing (R) condition (SDS-PAGE) due to different glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	VEGFD (Figf)

Target Details

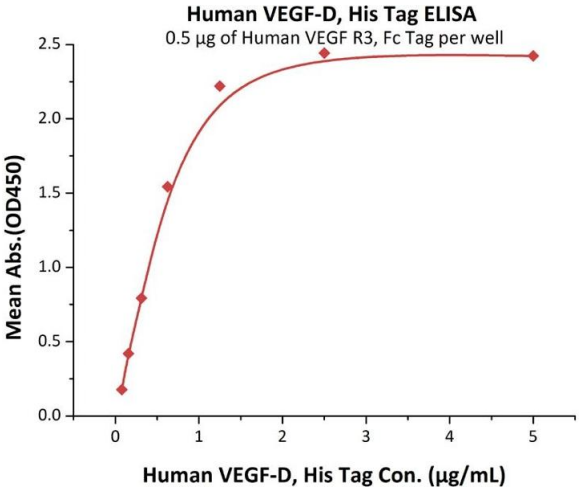
Alternative Name:	VEGF-D (Figf Products)
Background:	Vascular endothelial growth factor D (VEGF-D) is also known as C-fos induced growth factor (FIGF), which belongs to the PDGF / VEGF growth factor family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. This secreted protein VEGF-D / FIGF undergoes a complex proteolytic maturation, generating multiple processed forms that bind and activate VEGFR-2 and VEGFR-3. The structure and function of this protein is similar to those of VEGFC. FIGF / VEGF-D is highly expressed in lung, heart, small intestine and fetal lung. FIGF / VEGF-D may function in the formation of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR / FLK1) and VEGFR-3 (FLT4) receptors.
Molecular Weight:	13.4 kDa
Pathways:	RTK Signaling

Application Details

Restrictions:	For Research Use only

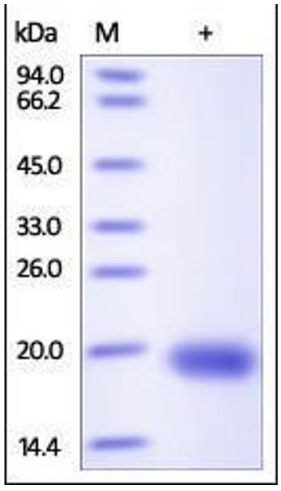
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



ELISA

Image 1. Immobilized Human VEGF R3, Fc Tag (ABIN5526635,ABIN5526636) at 5 μg/mL (100 μL/well) can bind Human VEGF-D, His Tag (ABIN2181913) with a linear range of 0.08-0.6 μg/mL (QC tested).



SDS-PAGE

Image 2. Human VEGF-D, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.