

Datasheet for ABIN2870705
VEGF Protein (AA 27-147) (His tag)[Go to Product page](#)

2 Images

Overview

Quantity:	50 µg
Target:	VEGF
Protein Characteristics:	AA 27-147
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This VEGF protein is labelled with His tag.

Product Details

Sequence:	AA 27-147
Characteristics:	This protein carries a polyhistidine tag at the N-terminus. The protein has a calculated MW of 15 kDa. As a result of glycosylation, the protein migrates as 17 kDa and 20 kDa under reducing (R) condition, and 35-45 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>95 % as determined by reduced SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	VEGF
Alternative Name:	VEGF (VEGF Products)

Target Details

Background:	<p>Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF) and VEGF-A, and is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. Alternatively spliced isoforms of 121,145,165,183,189 and 206 amino acids in length are expressed in humans. VEGF165 appears to be the most abundant and potent isoform, followed by VEGF121 and VEGF189. VEGF121 is the only form that lacks a basic heparinbinding region and is freely diffusible. Mouse embryos expressing only the corresponding isoform (VEGF120) do not survive to term, and show defects in skeletogenesis. Human VEGF121 shares 87 % aa sequence identity with corresponding regions of mouse and rat, 93 % with feline, equine and bovine, and 91 %, 95 % and 96 % with ovine, canine and porcine VEGF, respectively. VEGF121 induces the proliferation of lymphatic endothelial cells. The lymphangiogenesis may be promoted by upregulation of VEGF121, which may in turn act in part via induction of VEGF-C.</p>
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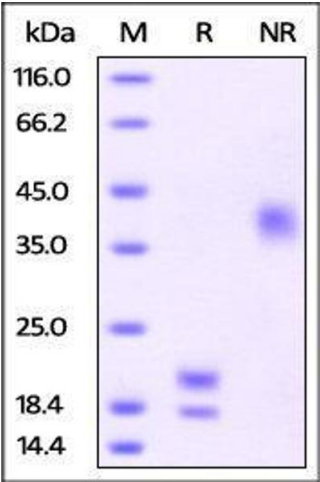
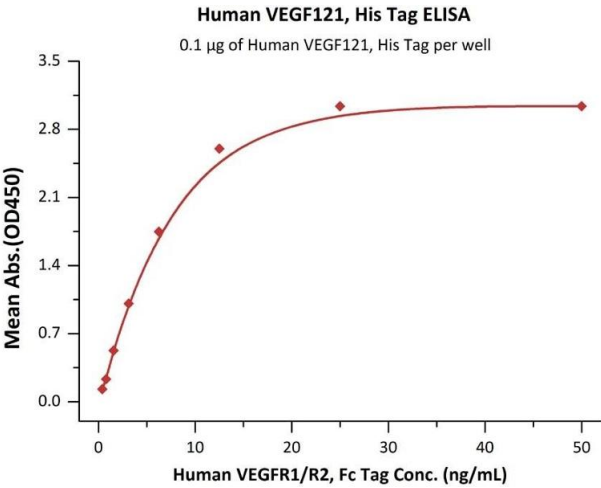
Molecular Weight:	14.9 kDa
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C



ELISA

Image 1. Immobilized Human VEGFR1/R2, Fc Tag at 1 µg/mL (100 µL/well) can bind Human VEGF121, His Tag (ABIN2870704,ABIN2870705) with a linear range of 3-50 ng/mL (QC tested).

SDS-PAGE

Image 2. Human VEGF121, His Tag on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.