

Datasheet for ABIN7505598

VEGF121 Protein (AA 1-147) (His tag)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	VEGF121
Protein Characteristics:	AA 1-147
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VEGF121 protein is labelled with His tag.

Product Details

Sequence:	Met1-Arg147
Characteristics:	A DNA sequence encoding the Human VEGF121 protein (P15692-9) (Met1-Arg147) was expressed with a C-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	VEGF121
Alternative Name:	VEGF121 (VEGF121 Products)
Background:	Abbreviation: VEGF121 Target Synonym: VEGF-A, Vascular permeability factor, VPF, VEGFA Background: Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces

Target Details

permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform '1' binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth. Binding to NRP1 receptor initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development. Also binds the DEAR/FBXW7-AS1 receptor.

Molecular Weight: Calculated MW: 17.2 kDa
Observed MW: 14 kDa,18 kDa

UniProt: [P15692-9](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 12 months