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Datasheet for ABIN7505598
VEGF121 Protein (AA 1-147) (His tag)

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:	Background: Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces 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.

Target Details

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.

Synonym: VEGF-A, Vascular permeability factor, VPF, VEGFA

Molecular Weight: 17.2 kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4.

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