## For Research Use Only Recombinant Human VEGF121 protein (Myc tag, His tag)



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## Catalog Number: Eg0192

<b>Basic Information</b>	<mark>Species:</mark> Human	Purity: >90 %, SDS-PAGE	Tag: Myc tag, His tag
	EC50: 300-1230 ng/mL		
Technical Specifications	Purity: >90 %, SDS-PAGE		
	<mark>Endotoxin Level:</mark> <0.1 EU/μg protein, LAL method		
	Source: HEK293-derived Human VEGF121 protein Ala27-Arg147 (Accession# P15692) with a Myc tag and a His tag at the C-terminus.		
	GenelD: 7422		
	Accession: P15692		
	Predicted Molecular Mass: 16.9 kDa		
	SDS-PAGE: 20-24 kDa, reducing (R) conditions		
	Formulation: Lyophilized from 0.22 µ n protectants before lyoph	n filtered solution in PBS, pH 7.4. Normal lization.	ly 5% trehalose and 5% mannitol are added as
<b>Biological Activity</b>	Immobilized Human VEGF121 (Myc tag, His tag) at 2 µg/mL (100 µL/well) can bind Human VEGFR1 (His tag) with a linear range of 300-1230 ng/mL.		
Storage and Shipping	Storage: It is recommended that th	ne protein be aliquoted for optimal stora	age. Avoid repeated freeze-thaw cycles.
	<ul> <li>Until expiry date, -20°C to -80°C as lyophilized proteins.</li> <li>3 months, -20°C to -80°C under sterile conditions after reconstitution.</li> </ul>		
	Shipping: The product is shipped at temperature.	ambient temperature. Upon receipt, sto	re it immediately at the recommended
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	Vascular endothelial growth factor (VEGF), is a signal protein produced by cells that stimulates vasculogenesis and angiogenesis. It is part of the system that restores the oxygen supply to tissues when blood circulation is inadequate such as in hypoxic conditions. Serum concentration of VEGF is high in bronchial asthma and diabetes mellitus. The activities of VEGF are not limited to the vascular system; VEGF plays a role in normal physiological functions such as bone formation, hematopoiesis, wound healing, and development. Disruption of this gene in mice resulted in abnormal embryonic blood vessel formation. VEGF is upregulated in many known tumors and its expression is correlated with tumor stage and progression. VEGF exists in several isoforms with different molecular weights and biological properties containing 121, 145, 165, 189, and 206 amino acids.		
References	1. Senger DR. et al. (1983). 2. Ferrara N. et al. (1992). E 3. Boocock CA. et al. (1995 4. Sunderkotter C. et al. (1 5. T Cohen. et al. (1995) J B	Science. 219: 983-5. ndocr Rev. 13: 18-32. ). J Natl Cancer Inst. 87: 506-516. 994). Int J Cancer. 55: 410-422. iol Chem. 270(19):11322-6.	
Synonyms	VEGF, VEGFA, L-VEGF, N-VE	GF, Vascular Endothelial Growth Factor	

## Selected Validation Data





Purity of Recombinant Human VEGF121 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

Immobilized Human VEGF 121 (Myc tag, His tag) at 2  $\,\mu$  g/mL (100  $\,\mu$  L/well) can bind Human VEGFR1 (His tag) with a linear range of 300-1230 ng/mL

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.