

VEGF121b Active Protein | VEGFA active protein

VEGF121b Protein, Human, Recombinant

CATALOG #
AAA258033

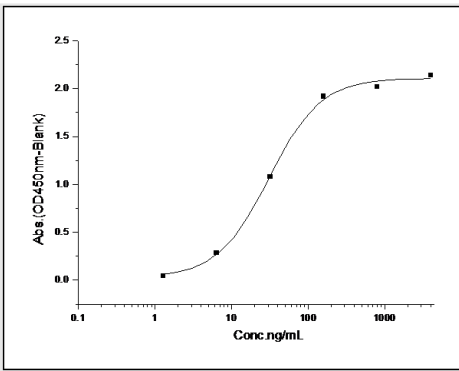
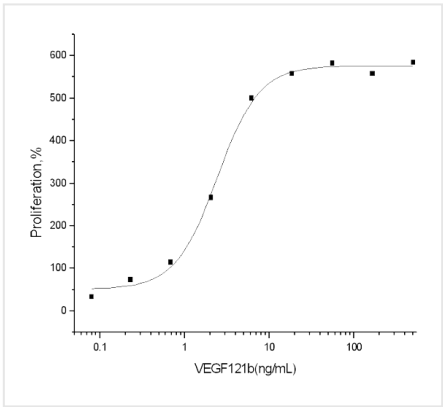
HOST
HEK293 Cells

PRODUCT SYNONYMS

VEGF121b; VEGF121b Protein; Human; Recombinant; Human VEGF121b/VEGF-A Protein; MVCD1 Protein; VEGF Protein; VEGF165 Protein; VPF Protein; vascular endothelial growth factor A; VEGFA active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Asp14 7
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ala 27
Tag	Native
Protein Construction	A DNA sequence encoding the human VEGF 121 isoform b (P15692-9)(Met1-Asp147,with last 6 amino acids switch from CDKPRR to SLTRKD) was expressed.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized human VEGF121b at 10ug/mL (100uL/well) can bind human VEGFR2-Fc. The EC50 of human VEGFR2-Fc is 0.06-0.1ug/mL. 2. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 1-5ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



Application Data
Measured by its binding ability in a functional ELISA. Immobilized human VEGF121b at 10ug/mL (100uL/well) can bind human VEGFR2-Fc, the EC50 of human VEGFR2-Fc is 0.06-0.1 ug/mL.

Application Data
Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 1-5 ng/mL.



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for VEGFA active protein	Background: Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF) and VEGF-A, is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and often exists as a disulfide-linked homodimer. VEGF-A 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, inhibiting apoptosis and tumor growth. VEGF-A protein is also a vasodilator that increases microvascular permeability, thus it was originally referred to as vascular permeability factor.
Product Categories/Family for VEGFA active protein	Cancer Drug Targets; VEGF Signaling Pathway
References	Woolard J. et al. (2004) VEGF165b, an inhibitory vascular endothelial growth factor splice variant: mechanism of action, in vivo effect on angiogenesis and endogenous protein expression. Cancer Res. 64(21): 7822-7835. Jia SF, et al. (2008) VEGF165 is necessary to the metastatic potential of Fas(-) osteosarcoma cells but will not rescue the Fas(+) cells. J Exp Ther Oncol. 7(2): 89-97. Cimpean AM, et al. (2008) Vascular endothelial growth factor A (VEGF A) as individual prognostic factor in invasive breast carcinoma. Rom J Morphol Embryol. 49(3): 303-8. Hamdollah Zadeh MA, et al. (2008) VEGF-mediated elevated intracellular calcium and angiogenesis in human microvascular endothelial cells in vitro are inhibited by dominant negative TRPC6. Microcirculation. 15(7): 605-14. Eisenach PA, et al. (2010) MT1-MMP regulates VEGF-A expression through a complex with VEGFR-2 and Src. J Cell Sci. 123(Pt 23):4182-4193. Claesson-Welsh L (2010) Gremlin: vexing VEGF receptor agonist. Blood. 116(18):3386-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	324120930
NCBI GeneID	7422

NCBI Accession #	NP_001191313.1
NCBI GenBank Nucleotide #	NM_001204384.1
UniProt Accession #	P15692 ; O60720 ; O75875 ; Q074Z4 ; Q16889 ; B5BU86 ; H0Y2S8 ; H0Y407 ; H0Y414 ; H0Y462 ; H0Y8N2 ; H3BLW7
Molecular Weight	27,042 Da
NCBI Official Full Name	vascular endothelial growth factor A isoform q
NCBI Official Synonym Full Names	vascular endothelial growth factor A
NCBI Official Symbol	VEGFA
NCBI Official Synonym Symbols	VPF; VEGF; MVCD1
NCBI Protein Information	vascular endothelial growth factor A; vascular permeability factor
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF
UniProt Entry Name	VEGFA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-vegfa-active-protein/vegfa121b/258033>