

VEGF165/VEGFA recombinant protein

Recombinant Human VEGF165/VEGFA Protein (Active)

CATALOG #
AAA174692

HOST
Human Cells

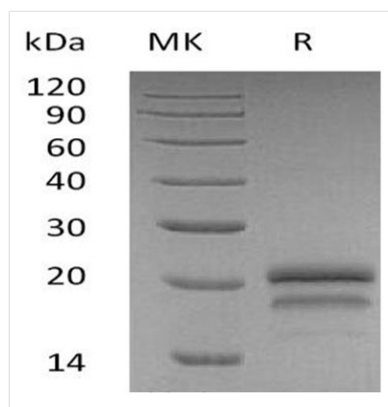
PRODUCT SYNONYMS

VEGF165/VEGFA; Recombinant Human VEGF165/VEGFA Protein (Active); MVCD1; VEGF; VEGF165; VPF; Vascular Endothelial Growth Factor Isoform 165; VEGF165/VEGFA recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Sequence	Ala27-Arg1 91
Sequence Length	171
Species	Human
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Bio_activity	Immobilized Human VEGF165 at 10µg/ml (100 µl/well) can bind Human VEGFR2, the ED50 of Human VEGF165 is 433.6 ng/ml.
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that 50mM Acetic acid (250µl) be added to the vial to prepare a stock solution of 0.2 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for VEGF165/VEGFA recombinant protein	Protein Construction: Recombinant Human VEGF165 is produced by our mammalian expression system and the target gene encoding Ala27-Arg191 is expressed. Background: Human Vascular endothelial growth factor (VEGF), also known as VEGF-A and vascular permeability factor (VPF), belongs to the platelet-derived growth factor family of cysteine-knot growth factors. It is a potent activator in vasculogenesis and angiogenesis both physiologically and pathologically. VEGF-A has 8 differently spliced isoforms, of which VEGF165 is the most abundant one. VEGF165 is a disulfide-linked homodimer consisting of two glycosylated 165 amino acid polypeptide chains. VEGF stimulates the cellular response through binding to tyrosine kinase receptors VEGFR1 and VEGFR2 on the cell surface. It is widely accepted that VEGFR2 mediate almost all of the known cellular responses to VEGF while the function of VEGFR1 is less defined and is thought to modulate the VEGFR2 signaling.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	324120930
NCBI GeneID	7422
NCBI Accession #	NP_001191313.1
NCBI GenBank Nucleotide #	NP_001191313.1
UniProt Accession #	P15692-4; P15692
Molecular Weight	Molecular Mass: 19.1kDa Actual Protein Molecular Mass: 18-22kDa
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
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.