

VEGF-A recombinant protein

Recombinant Human VEGF-A

CATALOG # AAA50377	HOST E Coli	APPLICATIONS ELISA
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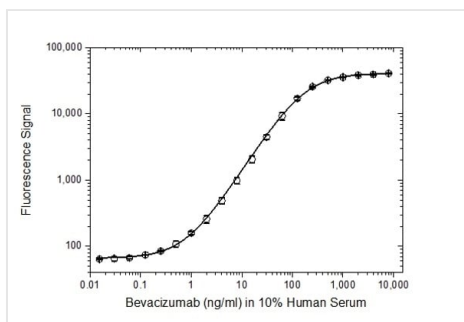
PRODUCT SYNONYMS

VEGF-A; Recombinant Human VEGF-A; VEGF-A recombinant protein

PRODUCT SPECIFICATIONS

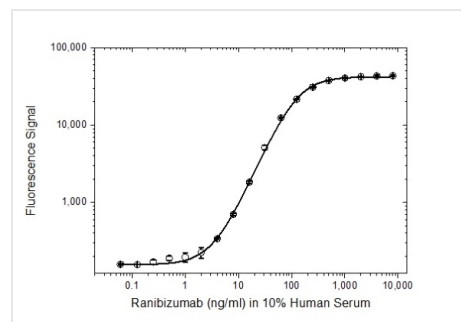
Host	E Coli
Purity/Purification	>=90% determined by SDS-PAGE under reducing conditions and visualized by coomassie blue staining Purified by affinity chromatography
Form/Format	Lyophilized
Concentration	0.5 mg/ml after reconstitution (varies by lot)
Sequence Length	171
Applicable Applications for VEGF-A recombinant protein	ELISA
Source	Human
Reconstitution	Centrifuge vial prior to reconstitution. Reconstitute to 0.5 mg/ml by adding 0.4 ml ddH2O.
Pre-Lyophilization Buffer	20 mM Phosphate Buffer, 0.1 M Sodium Chloride
Preservative Stabilizers	1% Trehalose
Preparation and Storage	Prior to reconstitution store at -70 degree C. Following reconstitution store at -20 degree C. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein.

IMAGES



Application Data

A microtiter plate was coated overnight with recombinant human VEGF-A at a concentration of 5 ug/ml. After washing and blocking with PBST+5% BSA, 10% human serum was added spiked with increasing concentrations of bevacizumab. Detection was performed using Human Anti-Ranibizumab Antibody, clone AbD29865 (HCA307, cross-reactive with bevacizumab) at a concentration of 2 mug/ml and a rat anti-DYKDDDDK-tag antibody in HISPEC Assay Diluent (BUF049A) followed by QuantaBlu Fluorogenic Peroxidase Substrate. Data are shown as the mean of three measurements.



Application Data

A microtiter plate was coated overnight with recombinant human VEGF-A at a concentration of 5 ug/ml. After washing and blocking with PBST+5% BSA, 10% human serum was added spiked with increasing concentrations of ranibizumab. Detection was performed using Human Anti-Ranibizumab Antibody, clone AbD29928 (HCA304) at a concentration of 2 ug/ml and a rat anti-DYKDDDDK-tag antibody in HISPEC Assay Diluent (BUF049A) followed by QuantaBlu Fluorogenic Peroxidase Substrate. Data are shown as the mean of three measurements

ADDITIONAL INFORMATION

Related Product Information for VEGF-A recombinant protein	Recombinant Human VEGF-A. Vascular endothelial growth factor alpha forms a homodimer and is a potent stimulator of angiogenesis of both normal and cancerous cells. It acts as a regulator of vasculogenesis, angiogenesis and endothelial cell growth. VEGF-A is secreted by many different cell types such as endothelial cells (Nissen et al. 1998), smooth muscle cells (Brogi et al. 1994), neutrophils (Gaudry et al. 1997), platelets (Banks et al. 1998), macrophages and 60% of all tumours (Berse et al. 1992). The sequence of this recombinant protein product is amino acid (aa) 27-aa 141 + CDKPRR but deficient from aa 142-226, and it is closest to isoform 121. Isoform 121 and 111 lack exons 6 and 7, and for this reason neither of these isoforms bind to the extracellular matrix (Krilleke et al. 2017). This product has been demonstrated for use, in a pharmacokinetic (PK) antigen capture ELISA with the monoclonal antibody drugs ranibizumab and bevacizumab using anti-ranibizumab antibodies for detection.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	324120930
NCBI GeneID	7422
NCBI Accession #	NP_001191313.1
NCBI GenBank Nucleotide #	NM_001204384.1
UniProt Accession #	P15692
Molecular Weight	Predicted: 14 kDa
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.

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Online datasheet: <https://stage.aaabiotech.com/vegfa-recombinant-protein-e-coli-elisa/50377>