

VEGF-165 protein

VEGF-165 (His tag)

CATALOG #
AAA269810

HOST
E coli

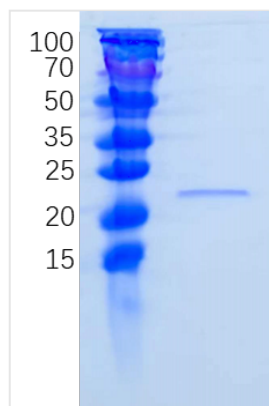
PRODUCT SYNONYMS

VEGF-165; VEGF-165 (His tag); Vascular endothelial growth factor A;VEGF;VEGFA;VPF;Vascular Endothelial Growth Factor A165;Vascular Endothelial Growth Factor;VEGF-A;MVCD1;Vascular permeability factor; VEGF-165 protein

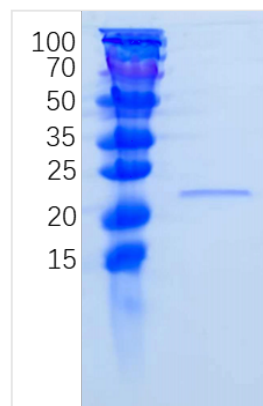
PRODUCT SPECIFICATIONS

Host	E coli
Form/Format	Purified protein solution after extensive dialysis against PBS, pH 8.5
Sequence	MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQENPCGP CSERRKHLFV QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR Accession# : P15 692-4
Species	Human
Tag	His
Expression System	Vascular endothelial growth factor (VEGF), produced in E coli is a single non-glycosylated polypeptide chain containing 165 amino acids. A fully biologically active molecule has a molecular mass of 19.2 kDa. The apparent molecular mass of the protein is approximately 22kD analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Preparation and Storage	For long term storage, the product should be stored at -20 degree C or lower. Please avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE
SDS-PAGE of VEGF-165 (#AAA269810).



Application Data

ADDITIONAL INFORMATION

Related Product Information for VEGF-165 protein	VEGF165 is the most abundant splice variant of VEGF-A. VEGF165 is produced by a number of cells including endothelial cells, macrophages and T cells. VEGF165 is involved in angiogenesis, vascular endothelial cell survival, growth, migration and vascular permeability. VEGF gene expression is induced by hypoxia, inflammatory cytokines and oncogenes. VEGF165 binds to heparan sulfate and is retained on the cell surface and in the extracellular matrix. VEGF165 binds to the receptor tyrosine kinases, VEGFR1 and VEGFR2. VEGF165 is the only splice variant that binds to co-receptors NRP-1 and NRP-2 that function to enhance VEGFR2 signaling. Binding of VEGF165 to VEGFR1 and VEGFR2 leads to activation of the PI3K/AKT, p38 MAPK, FAK and paxillin. VEGF plays a key role in tumor angiogenesis in many cancers
Product Categories/Family for VEGF-165 protein	Protein & Antigen

NCBI AND UNIPROT INFORMATION

Molecular Weight	19.2kDa, The apparent molecular mass of the protein is approximately 22kD with 6XHis tag observed by reducing SDS-PAGE.
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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/e-coli-protein/vegf-165/269810>