

VEGF C Active Protein | VEGFC active protein

VEGF C Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257893

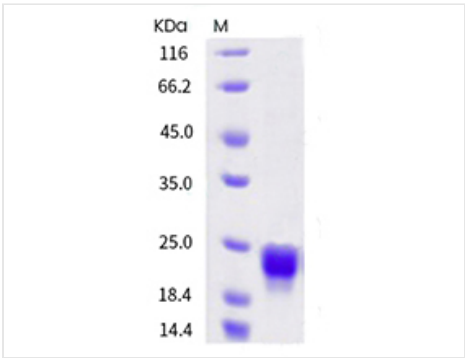
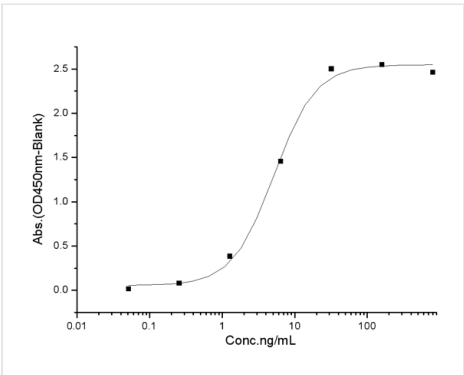
HOST
HEK293 Cells

PRODUCT SYNONYMS

VEGF C; VEGF C Protein; Human; Recombinant (His Tag); Human VEGF-C Protein (His Tag); Flt4-L Protein; LMPH1D Protein; VEGF-C Protein; VRP Protein; vascular endothelial growth factor C; VEGFC 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	Thr103-Arg 227
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Thr 103
Tag	C-His
Protein Construction	A DNA sequence encoding the mature form of human VEGFC (NP_005420.1)(Thr103-Arg227) was expressed with a C-terminal polyhistidine tag.
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 VEGF C-his at 2ug/mL (100uL/well) can bind VEGFR3 hFc. The EC50 of VEGFR3 hFc is 2-15ng/mL. 2. Scatchard analysis showed the affinity constant (Kd) of recombinant human VEGF-C bound to recombinant human VEGFR3 was 1.4nM. 3. Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is 0.05-0.2ug/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.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized VEGF C-his at 2 ug/mL (100 uL/well) can bind VEGFR3-His, Biotinylated, the EC50 of VEGFR3-His, Biotinylated is 1-10 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for VEGFC active protein	Background: Vascular endothelial growth factor C (VEGF-C) is a member of the VEGF family. Upon biosynthesis, VEGF-C protein is secreted as a non-covalent momodimer in an anti-parallel fashion. VEGF-C protein is a dimeric glycoprotein, as a ligand for two receptors, VEGFR-3 (Flt4), and VEGFR-2. VEGF-C may function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis. VEGF-C protein is over-expressed in various human cancers including breast cancer and prostate cancer. VEGF-C/VEGFR-3 axis, through different signaling pathways, plays a critical role in cancer progression by regulating different cellular functions, such as invasion, proliferation, and resistance to chemotherapy. Thus, targeting the VEGF-C/VEGFR-3 axis may be therapeutically significant for certain types of tumors.
Product Categories/Family for VEGFC active protein	Cancer Drug Targets
References	Joukov V, et al. (1997) Vascular endothelial growth factors VEGF-B and VEGF-C. J Cell Physiol. 173(2): 211-5.Su JL, et al. (2007) The role of the VEGF-C/VEGFR-3 axis in cancer progression. Br J Cancer. 96(4): 541-5.Anisimov A, et al. (2009) Activated forms of VEGF-C and VEGF-D provide improved vascular function in skeletal muscle. Circ Res. 104(11): 1302-12.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885653
NCBI GeneID	7424
NCBI Accession #	NP_005420.1
NCBI GenBank Nucleotide #	NM_005429.3
UniProt Accession #	P49767; B2R9Q8
Molecular Weight	46,883 Da
NCBI Official Full Name	vascular endothelial growth factor C preproprotein
NCBI Official Synonym Full Names	vascular endothelial growth factor C
NCBI Official Symbol	VEGFC
NCBI Official Synonym Symbols	VRP; Flt4-L
NCBI Protein Information	vascular endothelial growth factor C; VEGF-C; FLT4 ligand DHM; vascular endothelial growth factor-related protein
UniProt Protein Name	Vascular endothelial growth factor C
UniProt Gene Name	VEGFC

UniProt Synonym Gene Names	VEGF-C; Flt4-L; VRP
UniProt Entry Name	VEGFC_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/hek293-cells-vegfc-active-protein/vegfc-c/257893>