

VEGFR3/FLT4 Active Protein | FLT4 active protein

VEGFR3/FLT4 Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258175

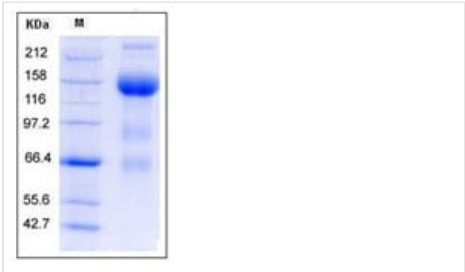
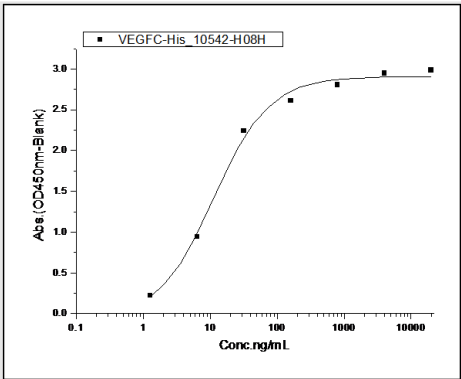
HOST
HEK293 Cells

PRODUCT SYNONYMS

VEGFR3/FLT4; VEGFR3/FLT4 Protein; Mouse; Recombinant (hFc Tag); Mouse VEGFR3/FLT-4 Protein (Fc Tag); A1323512 Protein; Chy Protein; Flt-4 Protein; VEGFR-3 Protein; VEGFR3 Protein; fms related tyrosine kinase 4; FLT4 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>92% 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-Glu77 5
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Tyr 25
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse FLT4 (P35917-1) extracellular domain (Met 1-Glu 775) was fused with the Fc region of human IgG1 at the C-terminus.
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 ability to bind human VEGF-D in functional ELISA. 2. Immobilized human VEGF-C at 10ug/mL (100uL/well) can bind mouse VEGFR3-Fc. The EC50 of mouse VEGFR3-Fc is 0.008ug/mL. 3. Measured by its ability to bind with mouse FIGF-His in a functional ELISA.
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
Immobilized human VEGF-C at 10 ug/mL (100 uL/well) can bind mouse VEGFR3-Fc. The EC50 of mouse VEGFR3-Fc is 0.008 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for FLT4 active protein	Background: Vascular endothelial growth factor receptor 3 (VEGFR3), also known as FLT-4, together with the other two members VEGFR1 (FLT-1) and VEGFR2 (KDR/Flk-1) are receptors for vascular endothelial growth factors (VEGF) and belong to the class III subfamily of receptor tyrosine kinases (RTKs). The VEGFR3 protein is expressed mainly on lymphatic vessels but it is also up-regulated in tumor angiogenesis. Mutations in VEGFR3 have been identified in patients with primary lymphoedema. The VEGF-C/VEGF-D/VEGFR3 signaling pathway may provide a target for antilymphangiogenic therapy in prostate cancer, breast cancer, gastric cancer, lung cancer, non-small cell lung cancer (NSCLC), and so on.
Product Categories/Family for FLT4 active protein	Cancer Drug Targets Receptor Tyrosine Kinases (RTKs)
References	Shushanov S, et al. (2000) VEGFc and VEGFR3 expression in human thyroid pathologies. Int J Cancer. 86(1): 47-52. Iljin K, et al. (2001) VEGFR3 gene structure, regulatory region, and sequence polymorphisms. FASEB J. 15(6): 1028-36. Liu XE, et al. (2004) Expression and significance of VEGF-C and FLT-4 in gastric cancer. World J Gastroenterol. 10(3): 352-5. Stearns ME, et al. (2004) Expression of a flt-4 (VEGFR3) splicing variant in primary human prostate tumors. VEGF D and flt-4t(Delta773-1081) overexpression is diagnostic for sentinel lymph node metastasis. Lab Invest. 84(6): 785-95.

NCBI AND UNIPROT INFORMATION

NCBI GI #	544322
NCBI GeneID	14257
UniProt Accession #	P35917
Molecular Weight	153,016 Da
NCBI Official Full Name	Vascular endothelial growth factor receptor 3
NCBI Official Synonym Full Names	FMS-like tyrosine kinase 4
NCBI Official Symbol	Flt4
NCBI Official Synonym Symbols	Chy; Flt-4; VEGFR3; VEGFR-3; AI323512
NCBI Protein Information	vascular endothelial growth factor receptor 3; chylous ascites; receptor protein tyrosine kinase; tyrosine-protein kinase receptor FLT4; vascular endothelial growth factor receptor-3
UniProt Protein Name	Vascular endothelial growth factor receptor 3

UniProt Gene Name	Flt4
UniProt Synonym Gene Names	Flt-4; Vegfr3; VEGFR-3; FLT-4
UniProt Entry Name	VGFR3_MOUSE

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-active-protein/vegfr3-flt4/258175>