

## VEGFR3/FLT4 Active Protein | FLT4 active protein

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

CATALOG #  
**AAA258175**

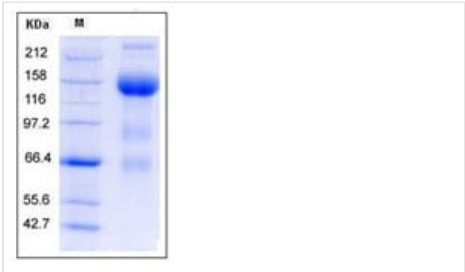
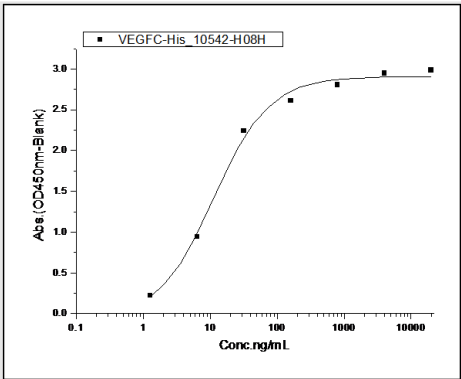
HOST  
**HEK293 Cells**

### 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                | <ol style="list-style-type: none"> <li>1. Measured by its ability to bind human VEGF-D in functional ELISA.</li> <li>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.</li> <li>3. Measured by its ability to bind with mouse FIGF-His in a functional ELISA.</li> </ol>                                                                                                                                                                  |
| Preparation and Storage | <p>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.</p> <p>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.</p> |



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.<br>Iljin K, et al. (2001) VEGFR3 gene structure, regulatory region, and sequence polymorphisms. FASEB J. 15(6): 1028-36.<br>Liu XE, et al. (2004) Expression and significance of VEGF-C and FLT-4 in gastric cancer. World J Gastroenterol. 10(3): 352-5.<br>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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/vegfr3-flt4/258175>