

## Vascular Endothelial Growth Factor receptor-3 Active Protein | FLT4 active protein

Recombinant Human Vascular Endothelial Growth Factor receptor-3

|                              |                             |
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| CATALOG #<br><b>AAA38401</b> | HOST<br><b>Insect Cells</b> |
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### PRODUCT SYNONYMS

Vascular Endothelial Growth Factor receptor-3; Recombinant Human Vascular Endothelial Growth Factor receptor-3; FLT4 Human; Vascular Endothelial Growth Factor Receptor-3 Human Recombinant; Tyrosine-protein kinase receptor FLT4; PCL; FLT41; FMS-LIKE TYROSINE KINASE 4; VEGFR-3; VEGFR3; FLT4 active protein

### PRODUCT SPECIFICATIONS

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| Host                    | Insect Cells                                                                                                                                                                                                                                                                                                                                             |
| Purity/Purification     | Greater than 90.0% as determined by(a)Analysis by RP-HPLC. (b)Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                      |
| Form/Format             | FLT4 was lyophilized from a concentrated (1 mg/ml) sterile solution containing 1x PBS.<br>Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                      |
| Sequence Length         | 1298                                                                                                                                                                                                                                                                                                                                                     |
| Solubility              | It is recommended to reconstitute the lyophilized FLT4 in sterile water not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                           |
| Biological Activity     | Measured by its ability to bind recombinant rat VEGF-C in a functional solid phase binding assay. Immobilised recombinant human VEGFR-3/FLT-4 at 5 ug/ml can bind recombinant rat VEGF-C in a linear range of 8-500 ng/ml.                                                                                                                               |
| Preparation and Storage | Lyophilized FLT4 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FLT4 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |

### ADDITIONAL INFORMATION

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| Related Product Information for FLT4 active protein | <p><b>Description:</b> Soluble FLT4 Human Recombinant fused with a carboxy-terminal 6X histidine-tag produced in baculovirus is a monomeric, glycosylated, polypeptide containing the extracellular part, 25-774 amino acids and having a total molecular mass of 120 kDa. The soluble receptor protein contains only the first 7 extracellular domains, which contain all the information necessary for ligand binding. The FLT4 is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> All three VEGF receptors belong to the class III subfamily of receptor tyrosine kinases (RTKs) characterised by the seven immunoglobulin-like loops in the extracellular domain. The expression of VEGFR-1 to -3 is almost exclusively restricted to hematopoietic precursor cells, vascular and lymphatic endothelial cells and to the monocyte/macrophage lineage. They play key roles in vasculogenesis, hematopoiesis, angiogenesis and lymphangiogenesis. The FLT-4 cDNA encodes a 1298 amino acid (aa) residue precursor protein with a 23 aa residue signal peptide. Mature VEGFR-3/FLT-4 is composed of a 751 aa residue extracellular domain, a 22 aa transmembrane domain and a 482 aa residue cytoplasmic domain. Both VEGF family members VEGF-C and VEGF-D have been shown to bind and activate VEGFR-3/FLT-4. The Flt-4 gene is widely expressed in the early embryo but becomes restricted to the lymphatic endothelial a latter stages of development. It is important for lymphangiogenesis.</p> |
| Product Categories/Family for FLT4 active protein   | Protein Kinases; Enzymes; VEGF Receptors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

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|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 103472027                                                                                                                                                                                                      |
| NCBI GeneID                      | 2324                                                                                                                                                                                                           |
| NCBI Accession #                 | NP_002011.2                                                                                                                                                                                                    |
| NCBI GenBank Nucleotide #        | NM_002020.4                                                                                                                                                                                                    |
| UniProt Accession #              | P35916; Q16067; Q86W07; Q86W08; A8K6L4; B5A926; AAB23636                                                                                                                                                       |
| Molecular Weight                 | 93,174 Da                                                                                                                                                                                                      |
| NCBI Official Full Name          | vascular endothelial growth factor receptor 3 isoform 2                                                                                                                                                        |
| NCBI Official Synonym Full Names | fms-related tyrosine kinase 4                                                                                                                                                                                  |
| NCBI Official Symbol             | FLT4                                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | PCL; FLT41; LMPH1A; VEGFR3                                                                                                                                                                                     |
| NCBI Protein Information         | vascular endothelial growth factor receptor 3; FLT-4; VEGFR-3; fms-like tyrosine kinase 4; soluble VEGFR3 variant 1; soluble VEGFR3 variant 2; soluble VEGFR3 variant 3; tyrosine-protein kinase receptor FLT4 |
| UniProt Protein Name             | Vascular endothelial growth factor receptor 3                                                                                                                                                                  |
| UniProt Gene Name                | FLT4                                                                                                                                                                                                           |
| UniProt Synonym Gene Names       | VEGFR3; VEGFR-3; FLT-4                                                                                                                                                                                         |
| UniProt Entry Name               | VGFR3_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/insect-cells-flt4-active-protein/vascular-endothelial-growth-factor-receptor-3/38401>