

# Active Recombinant Mouse Flt4 protein(Met1-Glu775), hFc-tagged

**Cat. No.** Flt4-281M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse FLT4 (P35917-1)(Met 1-Glu 775) was expressed in HEK293, fused with the Fc region of Human IgG1 at the C-terminus.                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Met1-Glu775                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | 1. Measured by its ability to bind human VEGF-D in functional ELISA. 2. Immobilized human VEGF-C at 10 µg/mL (100 µL/well) can bind mouse VEGFR3-Fc. The EC50 of mouse VEGFR3-Fc is 0.008 µg/mL. 3. Measured by its ability to bind with mouse FIGF-His in a functional ELISA.                                                                                                                                           |
| <b>Molecular Mass</b>   | The secreted recombinant mouse FLT4/Fc chimera is a disulfide-linked homodimer. The reduced monomer consists of 992 amino acids and has a predicted molecular mass of 112 kDa. As a result of glycosylation and proteolytic cleavage, rm FLT4/Fc monomer migRates as three bands (150, 85, 65 kDa) corresponding to the full length and the cleaved two polypeptides respectively in SDS-PAGE under reducing conditions. |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                  |
| <b>Purity</b>         | > 92 % as determined by SDS-PAGE                                                                                                                                                                                                                |
| <b>Storage</b>        | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                   |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Flt4 FMS-like tyrosine kinase 4 [ Mus musculus ]                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | Flt4                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | FLT4; FMS-like tyrosine kinase 4; vascular endothelial growth factor receptor 3; chylous ascites; receptor protein tyrosine kinase; tyrosine-protein kinase receptor FLT4; vascular endothelial growth factor receptor-3; Chy; Flt-4; VEGFR3; VEGFR-3; AI323512; |
| <b>Gene ID</b>         | 14257                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_008029                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_032055                                                                                                                                                                                                                                                        |

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