

## Active Recombinant Human FLT1 protein, Fc-tagged

**Cat. No.** FLT1-190H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant Human FLT1 protein(NP_001153503.1)(Met1-Ile328), fused with Fc tag, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met1-Ile328                                                                                                                                                                                                                                                                                                                                                                                                               |
| <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 binding ability in a functional ELISA. Immobilized human VEGFR1-Fc at 10µg/mL (100µL/well) can bind biotinylated human VEGF165, the EC50 of biotinylated human VEGF165 is 10-40 ng/mL. 2. Measured by its ability to inhibit VEGF-dependent proliferation of human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 20-100 ng/mL in the presence of 10 ng/mL rhVEGF165. |
| <b>Molecular Mass</b>   | The recombinant human FLT1 consists 543 amino acids and predicts a molecular mass of 61.1 kDa.                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                         |

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| <b>Storage</b>          | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. 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.                                                                                                                                                     |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>        | FLT1 fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor) [ Homo sapiens ]                                                                                                                                                                                                    |
| <b>Official Symbol</b>  | FLT1                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>         | FLT1; fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor); FLT; vascular endothelial growth factor receptor 1; VEGFR1; FLT-1; VEGFR-1; fms-like tyrosine kinase 1; tyrosine-protein kinase FRT; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor; |
| <b>Gene ID</b>          | 2321                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | NM_001159920                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>   | NP_001153392                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>              | 165070                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>       | P17948                                                                                                                                                                                                                                                                                                                            |