

## Active Recombinant Human FLT1, Fc-tagged, Biotinylated

Cat. No. FLT1-615H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The recombinant human FLT1-Fc fusion is expressed as a 859 amino acid protein consisting of Ser27 - Arg656 region of FLT1 (Uniprot accession # P17948 - isoform 2 or soluble FLT1) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	27-656 a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Binds VEGF and inhibits VEGF-dependent proliferation of human umbilical vein endothelial cells (HUVEC)
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 96.9; Estimated by SDS-PAGE under reducing condition (kDa): 110-120
<b>AA Sequence</b>	SKLKDPELSLKGQTQHIMQAGQTLHLQCRGEAAHKWLSPEMVSKESERLSITKSACG RNGKQFCSTLTLNTAQAN HTGFYSCKYLAVPTSKKKETESAIYIFISDTGRPFVEMY SEIPEIIHMTEGRELVIPCRVTSPNITVTLKKFPL DTLIPDGKRIIWDNRKGFIIISNATYK EIGLLTCEATVNGHLYKTNLTHRQNTNIIDVQISTPRPVKLLRGHTL VLNCTATTPLN TRVQMTWSYPDEKNKRASVRRRRIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRS

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GPSFKSV NTSVHIYDKAFITVKHRKQQVLETVAGKRSYRLSMKVKAFPSPEVVWLK  
 DGLPATEKSARYLTRGYSLIKDVT EEDAGNYTILLSIKQSNVFNLTATLIVNVKPQIY  
 EKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKWFWH PCNHNHSEARCDFCSNNE  
 ESFILDADSNMGNRIESITQRMAIIEGKNKMASTLVVADSRISGIYICIASNKVGT VGR  
 NISFYITDVPNGFHVNLEKMPTEGEDLKLSTVKNFLYRDVTWILLRTVNNRTMHYSI  
 SKQKMAITKEHSI TLNLTIMNVSLQDSGTYACRARNVYTGEEILQKKEITIRGSTGHT  
 CPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNWYVDG  
 VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA LPAPIEKTISK  
 AKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT  
 PPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKSLSLSPGK

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the

**Purity** >95% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** [FLT1 fms-related tyrosine kinase 1 \(vascular endothelial growth factor/vascular permeability factor receptor\) \[ Homo sapiens \]](#)

**Official Symbol** FLT1

**Synonyms** FLT1; fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular

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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;

**Gene ID** [2321](#)

**mRNA Refseq** [NM\\_001159920](#)

**Protein Refseq** [NP\\_001153392](#)

**MIM** [165070](#)

**UniProt ID** [P17948](#)

**Chromosome Location** 13q12

**Pathway** Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;

**Function** ATP binding; growth factor binding; nucleotide binding; protein binding; receptor activity; transmembrane receptor protein tyrosine kinase activity; vascular endothelial growth factor-activated receptor activity; vascular endothelial growth factor-activated receptor activity;

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