

## Active Recombinant Human FLT1, Fc-tagged

Cat. No. FLT1-616H 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).
<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>	SKLKDPPELSLKGQTQHIMQAGQTLHLQCRGEEAAHKWSPPEMVSKESEERLSITKSACG RNGKQFCSTLTLNDAQAN HTGFYSCKYLAVPTSKKKETESAIYIFISDTGRPFVEMY SEIPEIIHMTEGRELVIPCRVTSFNITVTLKKFPL DTLIPDGKRIIWDNRKGFIIISNATYK EIGLLTCEATVNGHLYKTNLYLTHRQTNTIIDVQISTPRPVKLLRGHTL VLNCTATTPLN TRVQMTWSYPDEKNKRASVRRRIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRS GPSFKSV NTSVHIYDKAFITVKHRKQQVLETVAGKRSYRLSMKVKAFFPSPEVVWLK

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DGLPATEKSARYLTRGYSLIKDVT EEDAGNYTILLSIKQSNVFNLTATLIVNVKPKIY  
 EKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKWFWH PCNHNHSEARCDFCSNNE  
 ESFILDADSNMGNRIESITQRMAIIEGKNKMASTLVVADSRISGIYICIASNKVGT VGR  
 NISFYITDVPNGFHVNLEKMPTEGEDLKL SCTVNKFLYRDVTWILLRTVNNRTMHYSI  
 SKQKMAITKEHSI TLNLTIMNVSLQDSGTACRARNVYTGEEILQKKEITIRGSTGHT  
 CPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNWYVDG  
 VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA LPAPIEKTISK  
 AKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT  
 PPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSSVMHEALHNHYTQKSLSLSPGK

**Endotoxin**

<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein=""  
 determined="" by="" the="" lal="">

**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.

## 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 permeability factor receptor); FLT; vascular endothelial growth factor receptor 1;

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	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>	<a href="#">2321</a>
<b>mRNA Refseq</b>	<a href="#">NM_001159920</a>
<b>Protein Refseq</b>	<a href="#">NP_001153392</a>
<b>MIM</b>	<a href="#">165070</a>
<b>UniProt ID</b>	<a href="#">P17948</a>
<b>Chromosome Location</b>	13q12
<b>Pathway</b>	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;
<b>Function</b>	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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