

Active Recombinant Human FLT1, Fc-tagged, Biotinylated

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
ProteinLength	27-656 a.a.
Form	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).
Bio-activity	Binds VEGF and inhibits VEGF-dependent proliferation of human umbilical vein endothelial cells (HUVEC)
Molecular Mass	Calculated molecular mass (kDa): 96.9; Estimated by SDS-PAGE under reducing condition (kDa): 110-120
AA Sequence	SKLKDPELSLKGTQHIMQAGQTLHLQCRGEAAHKWSLPEMVSKESERLSITKSACG RNGKQFCSTLTLNTAQAN HTGFYSCKYLAVPTSKKKETESAIYIFISDTGRPFVEMY SEIPEIIHMTGRELVIPCRVTSPNITVTLKKFPL DTLIPDGKRIIWDSRKGFIISNATYK EIGLLTCEATVNGHLYKTNLYLTHRQTNTIIDVQISTPRPVKLLRGHTL VLNCTATTPLN TRVQMTWSYPDEKNKRASVRRRIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRS

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GPSFKSV NTSVHIYDKAFITVKHRKQQVLETVAGKRSYRLSMKVKAFFPSPEVVWLK
DGLPATEKSARYLTRGYSLIKDVT EEDAGNYTILLSIKQSNVFNLTATLIVNVKPQIY
EKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKWFWH PCNNHSEARCDFCSNNE
ESFILDADSNMGNRIESITQRMAIIEGKNKMASTLVVADSRISGIYICIASNKVGT VGR
NISFYITDVPNGFHVNLKMPTEGEDLKL SCTVNKFLYRDVTWILLRTVNNRTMHYSI
SKQKMAITKEHSI TLNLTIMNVSLQDSGTYACRARNVYTGEELQKKEITIRGSTGHT
CPPCPAPELLGGPSVFLFPPKPKDTLMI SRTPEVTCVVVDVSHEDPEVKFNWYVDG
VEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKA LPAPIEKTISK
AKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT
PPVLDS DGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

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;