

# Recombinant Human FLT1

**Cat. No.** FLT1-7650H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview** Soluble FLT1 Human Recombinant fused with the Fc part of human IgG1 produced in baculovirus is disulfide-linked homodimeric, glycosylated, polypeptide containing 751 amino acids and having a molecular mass of 130 kDa. The soluble receptor protein contains only the first extracellular domains (Met1-Thr751), which contain all the information necessary for high affinity ligand binding. The FLT1 fc/Chimera is purified by chromatographic techniques.

**Species** Human

**ProteinLength** 1-751 a.a.

**Form** FLT1 D1-7 was lyophilized from concentrated (1 mg/ml) sterile solution containing no additives.

**AA Sequence**

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MVSYWDTGVL LCALLSCLLL TGSSSGSKLK DPELSLKGQTQ HIMQAGQTLH
LQCRGEEAAHK WSLPEMVSKE SERLSITKSA CGRNGKQFCS TLTNNTAQAN
HTGFYSCKYL AVPTS KKET ESAIYIFISD TGRPFVEMYS EIPEIIHMTE
GRELVIPCRV TSPNITVTLK KFPLDTLIPD GKRIIWDSRK GFIISNATYK
EIGLLTCEAT VNGHLYKTNY LTHRQNTNII DVQISTPRPV KLLRGHTLVL
NCTATTPLNT RVQMTWSYYPD EKNKRASVRR RIDQSN SHAN IFYSVLTIDK
MQNKDKGLYT CRVRSGPSFK SVNTSVHIYD KAFITVKHRK QQVLETVAGK
RSYRLSMKVK AFPSPEVVWL KDGLPATEKS ARYLTRGYSL IIKDVTEEDA
GNYTILLSIK QSNVFNKLTALIVNVKPQIYEKAVSSFPD PALYPLGSRQ
ILTCTAYGIP QPTIKWFWHP CNHNHSEARC DFCSNNEESF ILDADSNMGN
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RIESITQRMA IIEGKNKMAS TLVVADSRIS GIYICIASNK VGTVGRNISF  
 YITDVPNGFH VNLEKMPTEG EDLKLSCVTN KFLYRDVTWI LLRTVNNRTM  
 HYSISKQKMA ITKEHSITLN LTIMNVSLQD SGTYACRARN VYTGEEILQK  
 KEITIRDQEA PYLLRNLSDH TVAISSSTTL DCHANGVPEP QITWFKNNHK  
 IQQEPGILG PGSSTLFIER VTEEDEGVYH CKATNQKGSV ESSAYLTVQG  
 TAASDKHTHC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV  
 SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG  
 KEYKCKVSNK ALPAPIEKTI S

**Purity** Greater than 95.0% as determined by(a)Analysis by RP-HPLC.(b)Analysis by SDS-PAGE.

**Notes** For research use only.

**Storage** Lyophilized FLT-1 although stable at room temperature for weeks, should be stored desiccated below -18°C. Upon reconstitution FLT1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add carrier protein (0. 1% HSA or BSA). Please prevent 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; VEGFR1; FLT-1; VEGFR-1; fms-like tyrosine kinase 1; tyrosine-protein kinase FRT; tyrosine-protein kinase receptor FLT; vascular permeability factor receptor;

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<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
<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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