

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	MVSYWDTGVL LCALLSCLLL TGSSSGSKLK DPELSLKGTQ HIMQAGQTLH LQCRGEAAHK WSLPEMVSKE SERLSITKSA CGRNGKQFCS TLTNTAQAN HTGFYSCKYL AVPTSKKKET ESAIYIFISD TGRPFVEMYS EIPEIIHMTE GRELVIPCRV TSPNITVTLK KFPLDTLIPD GKRIIWDSRK GFIISNATYK EIGLLTCEAT VNGHLYKTNY LTHRQNTNII DVQISTPRPV KLLRGHTLVL NCTATTPLNT RVQMTWSYPD EKNKRASVRR RIDQSNCHAN IFYSVLTIK MQNKDKGLYT CRVRSGPSFK SVNTSVHIYD KAFITVKHRK QQVLETVAGK RSYRLSMKVK AFPSPEVVWL KDGLPATEKS ARYLTRGYSL IIKDVTEEDA GNYTILLSIK QSNVFNKLT TLIVNVKPQI YEKAVSSFPD PALYPLGSRQ ILTCTAYGIP QPTIKWFWHP CNHNHSEARC DFCSNNEESF ILDADSNMGN

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RIESITQRMA IIEGKNKMAS TLVVADSRIS GIYICIASNK VGTVGRNISF
 YITDVPNGFH VNLEKMPTEG EDLKLSTVN KFLYRDVTWI LLRTVNNRTM
 HYSISKQKMA ITKEHSITLN LTIMNVSLQD SGTYACRARN VYTGEEILQK
 KEITIRDQEA PYLLRNLSDH TVAISSTTL DCHANGVPEP QITWFKNNHK
 IQQEPGILG PGSSTLFIER VTEEDEGVYH CKATNQKGSV ESSAYLTVQG
 TAASDKTHTC 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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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;