

# Recombinant Human Fms-Related Tyrosine Kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)

**Cat. No.** FLT1-1221H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant humansoluble FLT1 is the naturally occurring form and was cloned from total RNA of human umbilical vein endothelial cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	The recombinant mature soluble FLT1 is aglycosylated monomeric protein consisting of the first 6 extracellular domains (Met1-His688) containing the unique 31 amino acid residues at the C-terminus.
<b>Form</b>	Lyophilized without additives.
<b>Molecular Weight</b>	96 kDa
<b>Purity</b>	> 90% as determined by SDS-PAGE and visualized by silver stain
<b>Endotoxin Level</b>	< 0.1 ng/g of FLT1
<b>Biological Activity</b>	Determined by its ability to abolish the binding of iodinated FLT1 to solid surfaces or cell surface receptors. The ED50 for this effect is typically 10 ng/ml. The usable range is 5-50 ng/ml.

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<b>Reconstitution</b>	Centrifuge vial prior to opening. Soluble in water and most aqueous buffers. Add PBS to the vial to fully solubilize the protein to a concentration not lower than 100 ng/ml.
<b>Storage</b>	Lyophilized protein is stable for 6 months at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	FLT1 fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor) [ Homo sapiens ]
<b>Official Symbol</b>	FLT1
<b>Synonyms</b>	FLT1; fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor); FLT; VEGFR1; FRT; vascular endothelial growth factor receptor 1; EC 2.7.10.1; VEGFR-1; Vascular permeability factor receptor; Flt-1; Tyrosine-protein kinase receptor FLT; Tyrosine-protein kinase FRT; Fms-like tyrosine kinase 1
<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

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**Pathway**

Cytokine-cytokinereceptor interaction; Endocytosis; Focal Adhesion; Glypican 1 network;HIF-2-alpha transcription factor network; Id Signaling Pathway; Neuophilininteractions with VEGF and VEGFR; Rheumatoid arthritis; S1P3 pathway; SignalTransduction; Signaling by VEGF; Signaling events mediated by VEGFR1 andVEGFR2; VEGF binds to VEGFR leading to receptor dimerization; VEGFligand-receptor interactions; VEGFR1 specific signals

**Function**

ATP binding; growth factorbinding; identical protein binding; nucleotide binding; receptor activity;transferase activity; vascular endothelial growth factor receptor activity

**PDBrendering based  
on 1ft.**

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