

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

Product Overview	Recombinant humansoluble FLT1 is the naturally occurring form and was cloned from total RNA ofhuman umbilical vein endothelial cells.
Species	Human
Source	Insect Cells
Description	The recombinant mature soluble FLT1 is aglycosylated monomeric protein consisting of the first 6 extracellulardomains (Met1-His688) containing the unique 31 amino acid residues at theC-terminus.
Form	Lyophilizedwithout additives.
Molecular Weight	96 kDa
Purity	> 90% asdetermined by SDS-PAGE and visualized by silver stain
Endotoxin Level	< 0.1 ng/g of FLT1
Biological Activity	Determined by itsability to abolish the binding of iodinated FLT1 to solid surfaces or cellsurface receptors. The ED50 for this effect is typically 10 ng/ml. The usable range is 5-50 ng/ml.

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Reconstitution	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.
Storage	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.
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; 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
Gene ID	2321
mRNA Refseq	NM_001159920
Protein Refseq	NP_001153392
MIM	165070
UniProt ID	P17948
Chromosome Location	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; VEGF ligand-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.** Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA