

# Recombinant Human FLT1

**Cat. No.** FLT1-31709TH    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**

Recombinant fragment (human): a glycosylated protein containing only the first four extracellular domains of VEGF Receptor 1 (sVEGFR1). The protein is produced as a monomer and has a mass of approximately 55 kDa and contains 457 amino acids.  
Source: Insec

**Species**                      Human

**Description**

This gene encodes a member of the vascular endothelial growth factor receptor (VEGFR) family. VEGFR family members are receptor tyrosine kinases (RTKs) which contain an extracellular ligand-binding region with seven immunoglobulin (Ig)-like domains, a transmembrane segment, and a tyrosine kinase (TK) domain within the cytoplasmic domain. This protein binds to VEGFR-A, VEGFR-B and placental growth factor and plays an important role in angiogenesis and vasculogenesis. Expression of this receptor is found in vascular endothelial cells, placental trophoblast cells and peripheral blood monocytes. Multiple transcript variants encoding different isoforms have been found for this gene. Isoforms include a full-length transmembrane receptor isoform and shortened, soluble isoforms. The soluble isoforms are associated with the onset of pre-eclampsia.

**Tissue specificity**

Mostly in normal lung, but also in placenta, liver, kidney, heart and brain tissues. Specifically expressed in most of the vascular endothelial cells, and also expressed in peripheral blood monocytes. It is not expressed in tumor cell lines. Isoform sFlt1

**Form**                              Lyophilised: This protein is soluble in water and most aqueous buffers, The lyophilized

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powder should be reconstituted in water to a concentration of 100 ng/ml.

**Purity** >90% by SDS-PAGE

**Storage buffer** Preservative: None Buffer: None Endotoxin level:

**Storage** Store at -20°C, Stable for 6 months at -20°C

**Sequence Similarities** Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. Contains 7 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.

## 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;

**Gene ID** [2321](#)

**mRNA Refseq** [NM\\_001159920](#)

**Protein Refseq** [NP\\_001153392](#)

**MIM** [165070](#)

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<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;
<b>Function</b>	ATP binding; growth factor binding; identical protein binding; nucleotide binding; protein binding;

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