

## Recombinant Human FLT1/VEGFR2, Fc-tagged therapeutic protein

**Cat. No.** VEGFR1&VEGFR2-P09H    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

VEGF family factors are known to be the principal stimulators of abnormal angiogenesis, which play a fundamental role in tumor and various ocular diseases. Inhibition of VEGF is widely applied in antiangiogenic therapy. The therapeutic protein is a novel decoy receptor protein constructed by fusing VEGF receptor 1 and VEGF receptor 2 extracellular domains with the Fc region of human immunoglobulin.

#### 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.

#### Endotoxin

< 0.1 EU per µg of the protein

#### Purity

>97%

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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; 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;            |
| <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; |

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**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;

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