

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

Cat. No. FLT1-1222H Lot. No. (See product label)

## SPECIFICATION

|                          |  |
|--------------------------|--|
| <b>Product Overview</b>  | Recombinant humanFLT1 containing amino acids 783-end and an N-terminal His tag.  |
| <b>Species</b>           | Human  |
| <b>Source</b>            | Sf9 Cells  |
| <b>ProteinLength</b>     | 783-end a.a.   |
| <b>Description</b>       | FLT1is a protein that in humans is encoded by the FLT1 gene. FLT1 belongs to thesrc gene family and is related to oncogene ROS. Like other members of thisfamily, it shows tyrosine protein kinase activity that is important for thecontrol of cell proliferation and differentiation.  |
| <b>Form</b>              | Liquid in25 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 0.05% Tween-20 + 50% glycerol + 3 mMDTT.   |
| <b>Molecular Weight</b>  | 67.5 kDa   |
| <b>Specific Activity</b> | 170 U/mg. One unitis defined as the amount of enzyme that will transfer 1 nmol phosphate to thetyrosine substrate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES,pH 7.4 + 3 mM MgCl <sub>2</sub> + 3 mM MnCl <sub>2</sub> + 1 mM DTT + 3 μM Na-orthovanadate + 0.1 mM ATP + 30 μg/ml Poly (Glu:Tyr) <sub>4</sub> :1 substrate + 2 μg /ml recombinant FLT1. |

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**Storage** Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** FLT1 fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor) [ Homosapiens ]

**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

**Pathway** Cytokine-cytokine receptor interaction; Endocytosis; Focal Adhesion; Glypican 1 network; HIF-2-alpha transcription factor network; Id Signaling Pathway; Neurophilin interactions with VEGF and VEGFR; Rheumatoid arthritis; S1P3 pathway;

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SignalTransduction; Signaling by VEGF; Signaling events mediated by VEGFR1 and VEGFR2; VEGF binds to VEGFR leading to receptor dimerization; VEGF ligand-receptor interactions; VEGFR1 specific signals

**Function**

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

**PDB rendering based on 1ft.**

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