

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

Product Overview	Recombinant humanFLT1 containing amino acids 783-end and an N-terminal His tag.
Species	Human
Source	Sf9 Cells
ProteinLength	783-end a.a.
Description	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.
Form	Liquid in25 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 0.05% Tween-20 + 50% glycerol + 3 mMDTT.
Molecular Weight	67.5 kDa
Specific Activity	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 ₂ + 3 mM MnCl ₂ + 1 mM DTT + 3 μM Na-orthovanadate + 0.1 mMATP + 30 μg/ml Poly (Glu:Tyr) ₄ :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) [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

Pathway Cytokine-cytokine receptor interaction; Endocytosis; Focal Adhesion; Glypican 1 network; HIF-2-alpha transcription factor network; Id Signaling Pathway; Neuropilin 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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