

## Recombinant Human FLT3

**Cat. No.** FLT3-28413TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length protein (Human)
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene encodes a class III receptor tyrosine kinase that regulates hematopoiesis. The receptor consists of an extracellular domain composed of five immunoglobulin-like domains, one transmembrane region, and a cytoplasmic kinase domain split into two parts by a kinase-insert domain. The receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia.</p>
<b>Tissue specificity</b>	Bone marrow cells.
<b>Form</b>	Lyophilised: Reconstitute in 5 to 50ul of distilled water (conc. 1 to 0.1mg/ml). This solution can then be diluted into other aqueous buffers and stored at 2-8 °C for up to 1 week. For extended storage, freeze in working aliquots.
<b>Purity</b>	>95% by SDS-PAGE

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<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 protein kinase domain.
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">FLT3 fms-related tyrosine kinase 3 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">FLT3</a>
<b>Synonyms</b>	FLT3; fms-related tyrosine kinase 3; receptor-type tyrosine-protein kinase FLT3; CD135; FLK2; STK1;
<b>Gene ID</b>	<a href="#">2322</a>
<b>mRNA Refseq</b>	<a href="#">NM_004119</a>
<b>Protein Refseq</b>	<a href="#">NP_004110</a>
<b>MIM</b>	<a href="#">136351</a>
<b>Uniprot ID</b>	<a href="#">P36888</a>
<b>Chromosome Location</b>	13q12
<b>Pathway</b>	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific

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biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;  
Hematopoietic cell lineage, organism-specific biosystem;

**Function**

ATP binding; cytokine receptor activity; nucleotide binding; phosphatidylinositol 3-kinase binding; protein homodimerization activity;

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