

Recombinant Human FLT3

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

SPECIFICATION

Product Overview	Recombinant full length protein (Human)
Species	Human
Source	E.coli
Description	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.
Tissue specificity	Bone marrow cells.
Form	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.
Purity	>95% by SDS-PAGE

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	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.
Full Length	Full L.
GENE INFORMATION	
Gene Name	FLT3 fms-related tyrosine kinase 3 [Homo sapiens]
Official Symbol	FLT3
Synonyms	FLT3; fms-related tyrosine kinase 3; receptor-type tyrosine-protein kinase FLT3; CD135; FLK2; STK1;
Gene ID	2322
mRNA Refseq	NM_004119
Protein Refseq	NP_004110
MIM	136351
Uniprot ID	P36888
Chromosome Location	13q12
Pathway	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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