

Recombinant human FLT3, Active

Cat. No. FLT3-1550H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FLT3 is a polypeptide chain containing 165 amino acids (27–181 of P49771-1 FLT3L_HUMAN). It has a predicted molecular mass of 18.4 kDa, however as result of potential glycosylation, the recombinant protein could migrate with an apparent molecular mass of 18-25 kDa in SDS-PAGE.
Species	Human
Source	Nicotiana Benthamiana
ProteinLength	27-181 a.a.
Description	FLT3 ligand is a transmembrane glycoprotein that activates the FLT3 receptor (CD135, FLK2). FLT3 ligand, in synergy with other cytokines, stimulates the growth and differentiation of a number of important cell populations. Activation of FLT3 stimulates the growth and differentiation of very early stem cells involved in haematopoiesis, myelopoiesis, erythropoiesis and megakaryopoiesis. FLT3 activation mobilizes hematopoietic progenitor cells into peripheral blood and induces proliferation of myeloid and dendritic cells (DC). Dysregulation of FLT3 has been associated with acute leukaemia(s) involving myeloid (AML), T, and B blast cell(s).
Form	Recombinant human Flt3 is lyophilized from a Tris HCl 0.05M buffer pH 7.4.
Molecular Mass	18.4 kDa, apparent molecular mass of 18-25 kDa in SDS-PAGE.
AA Sequence	HHHHHHTQDCSFQHSPISSDFAVKIRELSYLLQDYPVTVASNLQDEELCGGLWRL

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	VLAQRWMERLKTVAGSKMQ GLLERVNTEIHFVTKCAFQPPPSCLRQVQTNISRLQ ETSEQLVALKPWITRQNFRCLELQCQPDSSSTLPPPWS PRPLEATAPTA
Endotoxin	< 0.04 EU/μg protein (LAL)
Purity	>97% by SDS-PAGE gel
Storage	This lyophilized preparation is stable at 2-8°C for short term, long storage it should be kept at -20°C. Reconstituted protein should be stored in working aliquots at -20°C. Repeated freezing and thawing is not recommended.
Reconstitution	Centrifuge vial before opening. Lyophilized protein should be reconstituted in water to a concentration of 50 ng/μl. Optimal concentration should be determined for specific application and cell lines.

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; STK-1; CD135 antigen; FL cytokine receptor; fetal liver kinase 2; fms-like tyrosine kinase 3; stem cell tyrosine kinase 1; growth factor receptor tyrosine kinase type III; FLK-2;
Gene ID	2322
mRNA Refseq	NM_004119
Protein Refseq	NP_004110

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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 biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Pathways in cancer, organism-specific biosystem;
Function	ATP binding; cytokine receptor activity; nucleotide binding; phosphatidylinositol 3-kinase binding; protein homodimerization activity; receptor activity; transmembrane receptor protein tyrosine kinase activity; transmembrane receptor protein tyrosine kina