

Active Recombinant Human FLT3 protein, GST/His-tagged

Cat. No. FLT3-4902H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FLT3, C-terminal fragment, amino acids R571-S993 (as in NCBI/Protein entry NP_004110.2), internal tandem duplication(oncological mutation: ITD) of aa 591-600 N-terminal GST-HIS6 fusion protein with a 3C cleavage site, was expressed in Sf9 insect cells
Species	Human
Source	Insect Cells
ProteinLength	571-993;591-600 a.a.
Description	This gene encodes a class III receptor tyrosine kinase that regulates hematopoiesis. This 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.
Form	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol
Bio-activity	15 pmol/g×min

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Molecular Mass	78,552 Da
AA Sequence	RYESQLQMVQ VTGSSDNEYF YVDFREYEYD LKWEFPRENL EFGKVLGSGA FGKVMNATAY GISKTVSISQ VAVKMLKEKA DSSEREALMS ELKMMTQLGS HENIVNLLGA CTLSGPIYLI FEYCCYGDLL NYLRSKREKF HRTWTEIFKE HNFSFYPTFQ SHPNSSMPGS REVQIHPDSD QISGLHGNSF HSEDEIEYEN QKRLEEEEDL NVLTFEDLLC FAYQVAKGME FLEFKSCVHR DLAARNVLVT HGKVVKICDF GLARDIMSDS NYVVRGNARL PVKWMAPESL FEGIYTIKSD VWSYGILLWE IFSLGVPYP GIPVDANFYK LIQNGFKMDQ PFYATEEIIYI IMQSCWAFDS RKRPSFPNLT SFLGCQLADA EEAMYQNVDG RVSECPHTYQ NRRPFSREMD LGLLSPQAQV EDS
Storage	Storage temperature: -80 centigradeFor complete recovery, mix well and spin before use. Product must not be stored in diluted solutions, aliquots below 10µare not advisable. Avoid repeated freeze-thaw cycles!
Concentration	0.095 g/µ
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

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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 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 kinase activity; vascular endothelial growth factor-activated receptor activity;