

Recombinant Full Length Human FLT3 Protein, C-Flag-tagged

Cat. No. FLT3-984HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FLT3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	112.7 kDa
AA Sequence	MPALARGGGQLPLLVFSA MIFGTITNQDLPVIKCVLINHKNNDSSVGKSSSYPMVSE SPEDLGALRPQ SSGTVYEAAAVEVDVSASITLQVLVDAPGNISCLWVFKHSSLNC QPHFDLQNRGVVSMVILKMTETQAGE YLLFIQSEATNYTILFTVSIRNTLLYTLRRPY FRKMENQDALVCISESVPEPIVEWVLCDSQGESC KEEES PAVVKKEEKVLHELFGMD IRCCARNELGRECTRLFTIDLNQTPQTTL PQLFLKVGEPLWIRCKAVHVNHG FGLTW

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ELENKALEEGNYFEMSTYSTNRTMIRILFAFVSSVARNDTGYYTCSSSKHPSQSALV
TIVEKGFI NATNSSEDYEIDQYEEFCFSVRFKAYPQIRCTWTFSRKSFPCEQKGLDN
GYSISKFCNHHKHQPGEYIFHA ENDDAQFTKMFTLNIRRKPVLAEEASASQASCFSD
GYPLPSWTWKKCDKSPNCTEEITEGVWNRKANRK VFGQWVSSSTLNMSEAIKGF
LVKCCAYNSLGTSCETILLNSPGPFPIQDNISFYATIGVCLLFIVVLT LICHKYKKQF
RYESQLQMVQVTGSSDNEYFYVDFREYEDLKWEFPRENLEFGKVLGSGAFGKVM
NATAY GISKTGVSIQVAVKMLKEKADSSEREALMSELKMMTQLGSHENIVNLLGACT
LSGPIYLIFEYCCYGDLL NYLRSKREKFHRTWTEIFKEHNFSFYPTFQSHPNSSMPG
SREVQIHPDSDQISGLHGNSFHSEDEIEYEN QKRLEEEEDLNVLTFEDLLCFAYQVA
KGMEFLEFKSCVHRDLAARNVLVTHGKVVKICDFGLARDIMSDS NYVVVRGNARLPV
KWMAPESLFEGIYTIKSDVWSYGILLWEIFSLGVNPYPGIPVDANFYKLIQNGFKMDQ
PFYATEEIIIMQSCWAFDSRKRPSPNLTSLGCLADAEAMYQNVDGRVSECPH
TYQNRPFPSREMD
LGLLSPQAQVEDSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Protein Pathways	Acute myeloid leukemia, Cytokine-cytokine receptor interaction, Hematopoietic cell

lineage, Pathways in cancer

Full Length

Full L.

GENE INFORMATION

Gene Name

FLT3 fms related receptor tyrosine kinase 3 [Homo sapiens (human)]

Official Symbol

FLT3

Synonyms

FLK2; STK1; CD135; FLK-2

Gene ID

2322

mRNA Refseq

NM_004119.3

Protein Refseq

NP_004110.2

MIM

136351

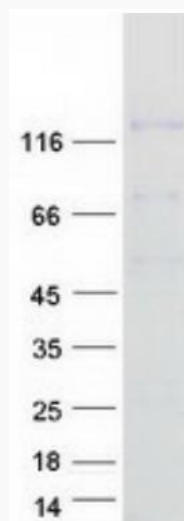
UniProt ID

P36888

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Coomassie blue staining of purified FLT3 protein.

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