

Recombinant Human FLT3 Protein, C-His-tagged

Cat. No. FLT3-038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FLT3 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	FMS-related tyrosine kinase 3 (FLT3, also called Flk2), is a member of the type III receptor tyrosine kinase family, which includes c-Kit, PDGFR and M-CSF receptors. FLT3 is expressed on early hematopoietic progenitor cells and supports growth and differentiation within the hematopoietic system. FLT3 is activated after binding with its ligand FL, which results in a cascade of tyrosine autophosphorylation and tyrosine phosphorylation of downstream targets. The p85 subunit of PI3 kinase, SHP2, GRB2 and Shc are associated with FLT3 after FL stimulation. Tyr589/591 is located in the juxtamembrane region of FLT3 and may play an important role in regulation of FLT3 tyrosine kinase activity. Somatic mutations of FLT3 consisting of internal tandem duplications (ITDs) occur in 20% of patients with acute myeloid leukemia.
Molecular Mass	~57 kDa
AA Sequence	NQDLPIKCVLINHKNNDSVKGSSSYPMVSESPEDLGALRPQSSGTVYEEAAVE VDVSASITLQVLVDAPGNISCLWVFKHSSLNCQPHFDLQNRGVVSMVILKMTETQAG EYLLFIQSEATNYTILFTVSIRNTLLYTLRRPYFRKMENQDALVCISESVPEPIVEWVLC DSQGESCKEESPAVVKKEEKVLHELFGTDIRCCARNELGRECTRLFTIDLNQTPQTT LPQLFLKVGEPWLWIRCKAVHVNHGFGLTWELENKALEEGNYFEMSTYSTNRTMIRIL

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FAFVSSVARNDTGYYTCSSSKHPSQSALVTIVEKGFINATNSSSEDYEIDQYEEFCFSV
 RFKAYPQIRCTWTFSRKSFPCEQKGLDNGYSISKFCNHKHQPGHEYIFHAENDDAQF
 TKMFTLNIRRKQPQLAEASASQASCFSGDGYPLPSWTWKKCSKSPNCTEEITEGVW
 NRKANRKVFGQWVSSSTLNMSEAIKGLVKCCAYNSLGTSCETILLNSPGPFPIQD
 NIS

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

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

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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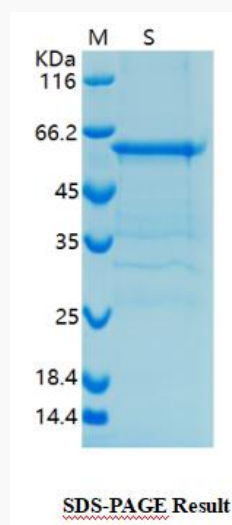
mRNA Refseq [NM_004119](#)

Protein Refseq [NP_004110](#)

MIM [136351](#)

UniProt ID [P36888](#)

SDS-PAGE



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