

Recombinant Mouse Flt3 Protein, Myc/DDK-tagged

Cat. No. Flt3-3045M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length FMS-like tyrosine kinase 3 (Flt3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
ProteinLength	1-1000 aa
Description	Tyrosine-protein kinase that acts as cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation and survival of hematopoietic progenitor cells and of dendritic cells. Promotes phosphorylation of SHC1 and AKT1, and activation of the downstream effector MTOR. Promotes activation of RAS signaling and phosphorylation of downstream kinases, including MAPK1/ERK2 and/or MAPK3/ERK1. Promotes phosphorylation of FES, FER, PTPN6/SHP, PTPN11/SHP-2, PLCG1, and STAT5A and/or STAT5B. Activation of wild-type FLT3 causes only marginal activation of STAT5A or STAT5B. Mutations that cause constitutive kinase activity promote cell proliferation and resistance to apoptosis via the activation of multiple signaling pathways.
Molecular Mass	113.9 kDa
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

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Flt3 FMS-like tyrosine kinase 3 [Mus musculus (house mouse)]

Official Symbol Flt3

Synonyms FLT3; FMS-like tyrosine kinase 3; receptor-type tyrosine-protein kinase FLT3; FL cytokine receptor; fetal liver kinase 2; tyrosine-protein kinase FLT3; tyrosine-protein kinase receptor flk-2; Flk2; Ly72; wmf1; CD135; Flk-2; Flt-3; B230315G04; MGC124377; MGC124378

Gene ID 14255

mRNA Refseq NM_010229

Protein Refseq NP_034359

UniProt ID Q00342

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