# Active Recombinant Mouse Flt3l

**Cat. No.** Flt3l-03M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Flt3-Ligand Mouse Recombinant produced in E.Coli is non-glycosylated, polypeptide chain containing 163 amino acids and having a molecular mass of 18587 Dalton. Flt3-Ligand is purified by proprietary chromatographic techniques. |
| **Species** | Mouse |
| **Source** | E.coli |
| **Description** | FLT3 ligand is a receptor for the fl cytokine has a tyrosine-protein kinase activity & a growth factor that regulates proliferation of early hematopoietic cells. Flt3-Ligand synergizes with other CSFs and interleukins to induce growth and differentiation. |
| **Form** | Sterile Filtered White lyophilized (freeze-dried) powder. The FLT3L Mouse protein was lyophilized without any additives. |
| **Bio-activity** | The ED50, calculated by the dose-dependent proliferation of mouse AML5 cells is 1.3-2.0ng/ml. |
| **Molecular Mass** | 18587 Dalton |
| **AA Sequence** | MTPDCYFSHS PISSNFKVKF RELTDHLLKD YPVTVAVNLQ DEKHCKALWS LFLAQRWIEQ LKTVAGSKMQ TLLEDVNTEI HFVTSCTFQP LPECLRFVQT NISHLLKDTC TQLLALKPCI GKACQNFSRC LEVQCQPDSS TLLPPRSPIA LEATELPEPR PRQ. |

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| **Purity** | Greater than 98.0% as determined by SDS-PAGE. |
| **Stability** | Lyophilized Flt3-Ligand although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Flt-3 Ligand should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| **Reconstitution** | It is recommended to reconstitute the lyophilized Flt3-Ligand in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. |

## GENE INFORMATION

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| **Gene Name** | Flt3l FMS-like tyrosine kinase 3 ligand [ Mus musculus (house mouse) ] |
| **Official Symbol** | Flt3l |
| **Synonyms** | Flt3l; FMS-like tyrosine kinase 3 ligand; Ly72L; Flt3lg; Flt3l; Fms-related tyrosine kinase 3 ligand; FLK2; STK1; CD135; Stem Cell Tyrosine Kinase 1; FLT3LG; Flt3. |
| **Gene ID** | 14256 |
| **mRNA Refseq** | NM_013520 |
| **Protein Refseq** | NP_038548 |
| **UniProt ID** | P49772 |
| **Chromosome Location** | 7 B2-C; 7 29.14 cM |

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| **Pathway** | Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Pathways in cancer |
| **Function** | cytokine activity; protein homodimerization activity; receptor tyrosine kinase binding |

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