

**Product:** **Recombinant Mouse FLT-3 Ligand**  
**Cat #: 300-306P**  
Powder

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| Description         | FMS-related Tyrosine Kinase 3 Ligand (FLT-3 Ligand) is a growth factor important for the proliferation of hematopoietic cells. FLT-3 Ligand binds to, and transmits signals through, the receptor tyrosine kinase known as FMS-like Tyrosine Kinase-3 (FLT-3). FLT-3 Ligand promotes long-term expansion and differentiation of human pro-B cells in the presence of IL-7 or in combination of IL-7 and IL-3. Human FLT-3 Ligand can stimulate the proliferation of cells expressing murine FLT-3 receptors. Alternate names: FLt3 L, Fms-related tyrosine kinase 3 ligand |
| MW                  | Non-glycosylated protein, containing 163 amino acids, with a molecular weight of 18.6 kDa.   |
| Physical Appearance | Sterile filtered white lyophilized (freeze-dried) powder.  |
| Source              | <i>E. coli</i>   |
| Formulation         | Recombinant mouse FLT3-Ligand is lyophilized with no additives.  |
| Reconstitution      | Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.   |
| Stability           | Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.  |
| Biological Activity | The activity is determined by the dose-dependent proliferation of mouse AML5 cells and is typically 5-8 ng/mL.   |
| Endotoxin Level     | Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein.  |
| AA Sequence         | MTPDCYFSHS PISSNFKVKF RELTDHLLKD YPVTVAVNLQ DEKHCKALWS<br>LFLAQRWIEQ LKT VAGSKMQ TLLEDVNTEI HFVTSCTFQP LPECLRFVQT<br>NISHLLKDTC TQLLALKPCI GKACQNF SRC LEVQCQPDSS TLLPPRSPIA<br>LEATELPEPR PRQ   |

Purity greater than 98% determined by Reducing and Non-reducing SDS-PAGE.

Protein content determined by Reducing and Non-reducing SDS-PAGE.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**