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## Product Data Sheet

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Product Name: Flt3 Ligand Mouse

Cat. No.: GP20263

Batch No.: 1

**Product Data**

|                     |  |                    |                       |
|---------------------|--|--------------------|-----------------------|
| Purity              | >98%   | Source             | Escherichia Coli.     |
| Physical Appearance | solid  | Shipping Condition | Shipped at Room temp. |
| Synonyms            | Fms-related tyrosine kinase 3 ligand; FLK2; STK1; CD135; Stem Cell Tyrosine Kinase 1; FLT3LG; Flt3.  |                    |                       |
| Amino Acid Sequence | MTPDCYFSHS PISSNFKVKF RELTDHLLKD YPVTVAVNLQ DEKHCKALWS<br>LFLAQRWIEQ LKTVAGSKMQ TLLEDVNTEI HFVTSCTFQP LPECLRFVQT<br>NISHLLKDTC TQLLALKPCI GKACQNF SRC LEVQCQPDSS TLLPPRSPIA<br>LEATELPEPR PRQ. |                    |                       |
| Solubility          | It is recommended to reconstitute the lyophilized Flt3-Ligand in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.        |                    |                       |
| Formulation         | The FLT3L Mouse protein was lyophilized from sterile filtered solution containing 10mM sodium phosphate, pH 7.5.   |                    |                       |

**Introduction**

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.

**Biological Activity**

The ED<sub>50</sub>, calculated by the dose-dependent proliferation of mouse AML5 cells is 1.66ng/ml, corresponding to a specific activity of 6.0x10<sup>5</sup> units/mg.

**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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Flt3-Ligand Mouse Recombinant produced in E.Coli is a non-glycosylated, polypeptide chain containing 163 amino acids and having a molecular mass of 18.6kDa. Flt3-Ligand is purified by proprietary chromatographic techniques.

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