



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Recombinant Human Flt3-Ligand

**Catalog No.**  
228-10487

**Source:**  
*Escherichia Coli.*

### **Synonyms:**

Fms-related tyrosine kinase 3 ligand, FLK2, STK1, CD135, Stem Cell Tyrosine Kinase 1, FLT3LG, Flt3.

### **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.

### **Description:**

Flt3-Ligand Human Recombinant produced in E.Coli is non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17605 Dalton. Flt3-Ligand is purified by proprietary chromatographic techniques.

### **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

### **Formulation**

The protein was lyophilized with no additives.

### **Solubility**

It is recommended to reconstitute the lyophilized Flt3-L in sterile 18MΩ-cm H<sub>2</sub>O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

### **Purity:**

Greater than 95.0% as determined by (a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

### **Stability:**

Lyophilized Flt3-Ligand although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Flt3-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.**

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Amino acid sequence***

The sequence of the first five N-terminal amino acids was determined and was found to be Thr-Gln-Asp-Cys-Ser.

### ***Biological Activity***

The ED50 range=0.5-1.0 ng/mL, calculated by the dose-dependant stimulation of the proliferation of human OCMI-AML5 cells.

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