



## Flt3-Ligand, rhesus macaque recombinant (rrmFlt3)

**Catalog No:** 97453  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Fms-related tyrosine kinase 3 ligand, FLK2, STK1, CD135, Stem Cell Tyrosine Kinase 1, FLT3LG, Flt3

### Background

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 Rhesus Macaque recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 159 amino acids and having a molecular mass of 18.0 kDa. Flt3 Ligand is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

### Solubility

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

### Stability

Lyophilized Flt3 Ligand, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Flt3 Ligand Rhesus Macaque should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

### Purity

Greater than 97.0% as determined by SDS-PAGE.

### Amino Acid Sequence

TQDCSFQHSP ISSDFAVKIR ELSDYLLQDY PVTVP SNLQD EELCGALWRL VLAQRWMERL KTVAGSKMQG LLERVNTEIH  
FVTKCAFQHP PSCLRFVQTN ISRL LQETSE QLVALKPWIT RQNF SRCLEL QCQPDSSTLP PPRSPGALEA TALTAPQRP

### Activity

The ED<sub>50</sub> as calculated by the dose-dependant stimulation of the proliferation of human AML5 cells is less than 1.0 ng/ml, corresponding to a specific activity of 1,000,000 IU/mg.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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