

## FLT3L

### Recombinant Rhesus Macaque Flt-3 Ligand

<b>Catalog No.</b>	CRF158A	<b>Quantity:</b>	2 µg
	CRF158B		10 µg
	CRF158C		1.0 mg

**Alternate Names:** Fms-related tyrosine kinase 3 ligand

**Description:** Recombinant Rhesus Macaque Flt-3 Ligand is a single, non-glycosylated polypeptide chain containing 159 amino acids.

Flt-3 ligand is a recently identified hematopoietic cytokine whose activities are mediated by binding to the transmembrane glycoprotein Flt-3. Flt-3 was first discovered as a member of the class III subfamily of receptor tyrosine kinases (RTK) whose expression among hematopoietic cells was found to be restricted to highly enriched stem/progenitor cell populations. Additional class III RTKs include the receptors from SCF, M-CSF and PDGF. Not surprisingly, Flt-3 ligand is also structurally related to M-CSF and SCF. All three cytokines have been shown to exist both as type I transmembrane proteins and as soluble proteins.

**Gene ID:** 719239

**Source:** *E. coli*

**Molecular Weight:** 18.0 kDa

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

**Purity:** >97% by SDS-PAGE and HPLC analyses

**Endotoxin Level:** <1EU/µg of rRhFlt-3L as determined by LAL method.

**Biological Activity:** Fully biologically active when compared to standard. The ED<sub>50</sub> determined by a cell proliferation assay using human AML5 cells is less than 1 ng/ml.

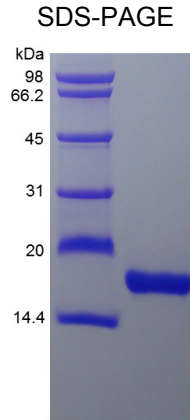
**Specific Activity:** > 1.0 × 10<sup>6</sup> IU/mg.

**Amino Acid Sequence:** TQDCSFQHSP ISSDFAVKIR ELSDYLLQDY PVTVPSNLQD EELCGALWRL  
VLAQRWMERL KTVAGSKMQG LLERVNTEIH FVTKCAFQHP PSCLRFVQTN  
ISRLLQETSE QLVALKPWIT RQNFSRCLEL QCQPDSSTLP PPRSPGALEA  
TALTAPQRP

**Reconstitution:** **Centrifuge vial prior to opening.** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

**Storage & Stability:** The lyophilized protein is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. After reconstitution, the protein is stable for 1 week at 2-4°C. For long term storage, aliquot and freeze at -80°C. **Avoid repeated freeze-thaw cycles.**





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