

**CHASELECTION****Recombinant Mouse Flt-3 Ligand/FLT3L, Tag Free**

货号(Catalog Number): CY144FXXXX(L)

**别名(synonym):**

FL; FLG3L; Flt3 ligand; Flt-3 Ligand; Flt3L;  
FLT3LG; fms-related tyrosine kinase 3 ligand; SL  
cytokine

**来源(Source):** Human embryonic kidney cell,  
HEK293-derived mouse Flt-3 Ligand/FLT3L protein

**蛋白结构 (Structure):** 该蛋白不含标签

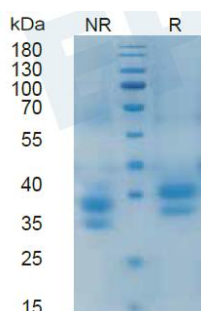
**基因 ID:** P49772

**氨基酸序列:** Gly27-Arg188

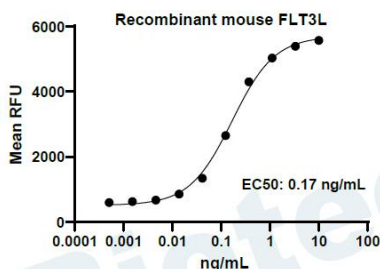
**分子量大小(MW):**18.4 kDa

**纯度 (Purity) :**

> 95%, determined by SDS-PAGE

**SDS-PAGE**

4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

**活性检测 (Biological Activity) :**

Recombinant mouse Flt-3 Ligand/FLT3L (Catalog # MF-2013 stimulates cell proliferation of the BaF3 mouse pro-B cells.

**内毒素含量 (Endotoxin) :**

<0.010 EU per 1 ug of the protein by the LAL method

**制剂(Formulation):**

Solution protein.

Dissolved in sterile PBS buffer.

This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

**储存与运输(Storage):**

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 °C as supplied.

Shipping with dry ice

**产品背景介绍 (Production) :**

**Flt-3 Ligand(FLT3L)** is an alpha-helical cytokine that promotes the differentiation of multiple hematopoietic cell lineages. Mature mouse Flt-3 Ligand consists of a 161 amino acid (aa) extracellular domain (ECD) with a cytokine-like domain and a juxtamembrane tether region, a 21 aa transmembrane segment, and a 22 aa cytoplasmic tail. Within the ECD, mouse Flt-3 Ligand shares 71% and 81% aa sequence identity with human and rat Flt-3 Ligand, respectively. The mouse and human Flt-3 Ligand proteins show cross-species activity. Flt-3 Ligand is also structurally related to M-CSF and SCF. Flt-3 Ligand is widely expressed in various mouse and human tissues. Flt-3 Ligand is expressed as a noncovalently-linked dimer by T cells and bone marrow and thymic fibroblasts. Each 36 kDa chain of the Flt-3 Ligand dimer carries approximately 12 kDa of N- and O-linked carbohydrates. Alternate splicing and proteolytic cleavage of the transmembrane form of the Flt-3 Ligand protein can generate a soluble 30 kDa fragment that includes the cytokine-like domain. Alternate splicing of mouse Flt-3 Ligand also

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generates a membrane-associated isoform with a 57 aa substitution following the cytokine-like domain in the ECD of the Flt-3 Ligand protein. Both transmembrane and soluble Flt-3 Ligand signal through the tyrosine kinase receptor Flt-3/Flk-2. Flt-3 Ligand induces the expansion of monocytes and immature dendritic cells as well as early B cell lineage differentiation. Additionally, Flt-3 Ligand synergizes with IL-3, GM-CSF, and SCF to promote the mobilization and myeloid differentiation of hematopoietic stem cells. Flt-3 Ligand also cooperates with IL-2, IL-6, IL-7, and IL-15 to induce NK cell development and with IL-3, IL-7, and IL-11 to induce terminal B cell maturation. Animal studies also show that Flt-3 Ligand reduces the severity of experimentally induced allergic inflammation.

