# Mouse FMS-related Tyrosine Kinase 3 Ligand

10 ug 100 ug 1000 ug CAT. NO. RP2006-10 RP2006-100 RP2006-1000

### **BACKGROUND**

Flt3-Ligand is a growth factor important for the proliferation of hematopoietic cells. Flt3-Ligand binds to, and transmits signals through, the receptor tyrosine kinase known as FMS-like Tyrosine Kinase-3 (FLT-3). Flt3 Ligand promotes long-term expansion and differentiation of human pro-B-cells in the presence of IL-7 or in combination of IL-7 and IL-3. Human Flt3-Ligand can stimulate the proliferation of cells expressing murine FLT-3 receptors.

Recombinant mouse Flt3-Ligand is a non-glycosylated protein, containing 144 amino acids and having a molecular mass of 16.4 kDa.

#### **Alternative Names:**

FLt3 L, Fms-related tyrosine kinase 3 ligand

## **Amino Acid Sequence:**

MTPDCYFSHS PISSNFKVKF RELTDHLLKD YPVTVAVNLQ DEKHCKALWS LFLAQRWIEQ LKTVAGSKMQ TLLEDVNTEI HFVTSCTFQP LPECLRFVQT NISHLLKDTC TQLLALKPCI GKACQNFSRC LEVQCQPDSS TLLPPRSPIA LEATELPEPR PRQ

### **TECHNICAL INFORMATION**

Source: E.coli

# **Physical Appearance:**

Sterile Filtered white lyophilized (freeze-dried) powder.

#### Formulation:

Recombinant mouse FLT3-Ligand is lyophilized with no additives.

# Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

# Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

# **Protein Content and Purity determined by:**

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

### **Endotoxin Level:**

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

### **Biological Activity:**

The activity is calculated by the dose-dependent proliferation of mouse AML5 cells and is typically 5-8 ng/ml.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

800-645-0848

