

PRODUCT DESCRIPTION:

Flt-3 (fms-like tyrosine kinase)/Flk-2 (fetal liver kinase-2) ligand (Flt-3 L) is a hematopoietic cytokine whose activities are mediated by binding to the transmembrane glycoprotein Flt-3/Flk-2. Flt-3 L has been shown to synergize with a wide variety of hematopoietic cytokines to stimulate the growth and differentiation of early hematopoietic progenitors.

Recombinant Mouse Flt-3 L is a 18 kDa protein containing 162 amino acid residues. Due to heterogeneous glycosylation, Flt-3 L resolves into multiple bands ranging from 18 - 32 kDa in SDS-PAGE.

SOURCE:

A DNA sequence encoding the extracellular domain of mouse Flt-3 L (amino acid residues 1 - 188) was expressed in a mouse myeloma cell line, NSO.

PURITY:

Purity is greater than 97%, as determined by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 ng/mg of the cytokine, as determined by the LAL method.

FORMULATION:

Lyophilized from a 0.2 µm filtered solution in 35% CH₃CN, 0.1% TFA containing 50 mg of bovine serum albumin per 1 µg of cytokine.

RECONSTITUTION:

It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10 µg/mL.

STABILITY AND STORAGE:

Lyophilized samples are stable for greater than six months at -20°C to -70°C.

Reconstituted mouse Flt-3 L can be stored under sterile conditions at 2°C to 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.

ACTIVITY:

Activity was determined by ability to stimulate the proliferation of a Flt-3 transfected pro-B cell line and the ED₅₀ for this effect was typically 1 - 4 ng/mL.

See Material Safety Data Sheet for more information.

**THIS REAGENT IS FOR RESEARCH ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

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Product Information Sheet

CYTOKINES



**RECOMBINANT
MOUSE
Flt-3 LIGAND**

Catalog # 02741 5 µg/vial
Catalog # 02941 25 µg/vial