



Flt3-Ligand, mouse recombinant (rmFlt3)

Catalog No: 87327
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 mouse recombinant produced in *E. coli* is non-glycosylated, polypeptide chain containing 163 amino acids and having a molecular mass of 18587 Dalton. Flt3-Ligand is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The FLT3L mouse protein was lyophilized without any additives.

Solubility

It is recommended to reconstitute the lyophilized Flt3-Ligand in sterile 18 MΩ-cm H₂O 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 Flt-3 Ligand should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by SDS-PAGE.

Amino Acid Sequence

MTPDCYFHS S PISNFKVKF RELTDHLLKD YPVTVAVNLQ DEKHCKALWS LFLAQRWIEQ LKTVAGSKMQ TLEDVNTEI
HFVTSCTFQP LPECLRFVQT NISHLKDTCT QLLALKPCI GKACQNF SRC LEVQCQPDSS TLLPPRSPIA LEATELPEPR
PRQ

Activity

The ED₅₀, calculated by the dose-dependent proliferation of mouse AML5 cells is 1.3 - 2.0 ng/ml.

Usage

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