



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Recombinant Mouse Flt3-Ligand

Catalog No.

228-10488

Source:

E. Coli

Synonyms:

Fms-related tyrosine kinase 3 ligand, FLK2, STK1, CD135, Stem Cell Tyrosine Kinase 1, FLT3LG, Flt3.

Introduction:

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 144 amino acids and having a molecular mass of 16431 Dalton.

Flt3-Ligand is purified by proprietary chromatographic techniques.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

The protein was lyophilized with no additives.

Solubility:

It is recommended to reconstitute the lyophilized Flt3-Ligand in sterile 18MΩ-cm H₂O not less than 100μg/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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Purity:

Greater than 98.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Amino acid sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Thr-Gln-Asp-Cys-Ser.

Biological Activity:

The activity is determined by the ability to generate CD11c+ splenic dendritic cells in vivo in C57B1/6-12 week female mice. To obtain the desired affect, mice were treated with approximately 25ug of flt3-ligand once daily for 9 consecutive days via intraperitoneal injection.

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