

Recombinant Mouse Flt3-Ligand (rm Flt3L / CD135)

Synonyms: Fms-related tyrosine kinase 3 ligand, Stem Cell Tyrosine Kinase 1(STK1).

Introduction: Flt3-Ligand is a growth factor that regulates proliferation of early hematopoietic cells. Flt3-Ligand binds to cells expressing the tyrosine kinase receptor Flt3. Flt3-Ligand, by itself does not stimulate proliferation of early hematopoietic cells, but synergizes with other CSFs and interleukins to induce growth and differentiation. Unlike SCF, Flt3-Ligand has no activity on mast cells. Multiple isoforms of Flt3-Ligand have been identified.

Description: Recombinant mouse Flt3-Ligand produced in *E.Coli* is a non-glycosylated, polypeptide chain containing 163 amino acids and having a molecular mass of 18.6 kDa. The rm Flt3-Ligand is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilised from a 0.22 µm filtered solution in PBS. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm Flt3-Ligand in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm Flt3-Ligand although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rm Flt3-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 95.0% as determined by SDS-PAGE.

Endotoxin: The endotoxin level is less than 1 EU / µg determined by LAL method

Amino acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Thr-Pro-Asp-Cys.

Biological Activity:

Determined by the dose-dependent stimulation of the proliferation of receptor-transfected cells.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12343302
<i>medium</i>	10 µg	Cat.N°	12343303
<i>large</i>	50 µg	Cat.N°	12343305
<i>x-large</i>	250 µg	Cat.N°	12343307
<i>xx-large</i>	1000 µg	Cat.N°	12343308

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