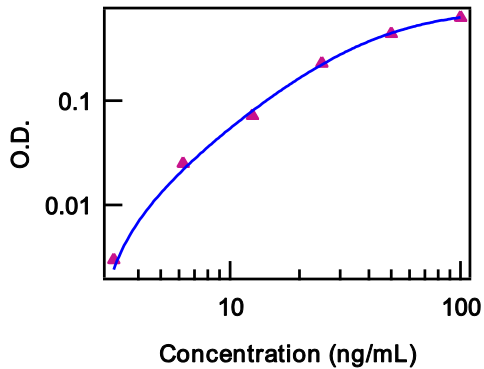


Mouse Flt3 Ligand (Flt3L) Recombinant Protein Carrier-Free

Catalog Number: 34-8001

Also known as: FL, FLT-3L, FMS-related tyrosine kinase 3 Ligand, Flk-2 Ligand

RUO: For Research Use Only. Not for use in diagnostic procedures.



Induction of mouse IL-6 in M1 cells by Mouse Flt3 Ligand Recombinant Protein Carrier-Free.

Product Information



Contents: Mouse Flt3 Ligand (Flt3L)
Recombinant Protein Carrier-Free

Catalog Number: 34-8001

Concentration: 0.5 mg/mL

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in sterile environment.

Source: E. coli expressed amino acids
Thr28-Gln189 accession number NM_013520

Molecular Mass: 20.7 kDa

Purity: > 97%, as determined by SDS-PAGE.

Endotoxin: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: The ED50 of this protein, as measured by IL-6 induction in M1 cells, is 50-250 ng/mL in the presence of 1 ng/mL Mouse LIF Recombinant Protein. This corresponds to a specific activity of 2×10^4 - 4×10^3 Units/mg.



Formulation: Sterile liquid: 20 mM glycine, 150 mM NaCl, pH 3.0; 0.22 um filtered.

Temperature Limitation: Store at less than or equal to -70°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

Flt3 (FMS-related tyrosine kinase 3) Ligand is a growth factor that stimulates the growth and differentiation of early hematopoietic progenitor cells. Flt3 Ligand alone exerts weak biological effects, and instead synergizes with other colony-stimulating factors to induce the proliferation and differentiation of cells of the myeloid and lymphoid lineages. Recent studies have suggested that Flt3 Ligand plays an important role in the development and expansion of dendritic cells *in vivo*, and that it may influence NK cell survival by this mechanism.

Flt3 Ligand transcripts are detectable in most cell types and tissues, although the protein has only been found in stromal cells and T cells. It is expressed most often as a transmembrane cell surface protein, although processing can yield a soluble, secreted isoform.

Applications Reported

Mouse Flt3 Ligand Recombinant Protein Carrier-Free is biologically active.

Applications Tested

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info@ebioscience.com

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References

Guimond M, Freud AG, Mao HC, Yu J, Blaser BW, Leong JW, Vandeusen JB, Dorrance A, Zhang J, Mackall CL, Caliguri MA. In vivo role of Flt3 ligand and dendritic cells in NK cell homeostasis. *J Immunol.* 2010 Mar 15; 184(6): 2769-75.

Kingston D, Schmid MA, Onai N, Obata-Onai A, Baumjohann D, Manz MG. The concerted action of GM-CSF and Flt3-ligand on in vivo dendritic cell homeostasis. *Blood.* 2009 Jul 23; 114(4): 835-43.

Wodnar-Filipowicz A. Flt3 ligand: role in control of hematopoietic and immune functions of the bone marrow. *News Physiol Sci.* 2003 Dec; 18: 247-51.

Related Products

12-1351 Anti-Mouse CD135 (Flt3) PE (A2F10)

14-1351 Anti-Mouse CD135 (Flt3) Purified (A2F10)

16-1351 Anti-Mouse CD135 (Flt3) Functional Grade Purified (A2F10)

34-8513 Human Flt3 Ligand Recombinant Protein Carrier-Free

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