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<b>Products</b>	Mouse Flt3-Ligand, research grade. Recombinant mouse fms-related tyrosine kinase 3 ligand.						
	<table border="1"> <thead> <tr> <th>Content in µg</th><th>Order no.</th></tr> </thead> <tbody> <tr> <td>10</td><td>130-094-038</td></tr> <tr> <td>100</td><td>130-097-372</td></tr> </tbody> </table>	Content in µg	Order no.	10	130-094-038	100	130-097-372
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10	130-094-038						
100	130-097-372						
<b>Biological activity</b>	The ED <sub>50</sub> is ≤10 ng/mL corresponding to an activity of ≥1×10 <sup>5</sup> U/mg. ▲ <b>Note:</b> The ED <sub>50</sub> is determined by proliferation assay using mouse AML5 cells.						
<b>Primary structure</b>	Single, non-glycosylated polypeptide chain (163 amino acid residues including an N-terminal methionine).						
<b>Molecular mass</b>	18.6 kDa.						
<b>Source</b>	Produced in <i>E. coli</i> .						
<b>Product format</b>	Lyophilized from a filtered (0.2 µm) buffer solution.						
<b>Stabilizer</b>	None.						
<b>Purity</b>	>95% as determined by SDS-PAGE analysis.						
<b>Endotoxin level</b>	Low endotoxin (<1.0 EU/µg cytokine) as determined by Limulus Amebocyte Lysate (LAL) assay.						
<b>Storage</b>	Lyophilized Mouse Flt3-Ligand, research grade should be stored at -20 °C. The expiration date is indicated on the vial label. Upon reconstitution aliquots should be stored at -20 °C or below. Avoid repeated freeze-thaw cycles.						
<b>Reconstitution</b>	It is recommended to reconstitute lyophilized Mouse Flt3-Ligand, research grade with deionized sterile-filtered water to a final concentration of 0.1–1.0 mg/mL in a minimal volume of 100 µL. Further dilutions should be prepared with 0.1% bovine serum albumin (BSA) or human serum albumin (HSA) in phosphate-buffered saline.						

#### 1.1 Background information

Fms-related tyrosine kinase 3 ligand (Flt3-ligand) is a growth factor that regulates early hematopoiesis. Flt3-ligand belongs to a small family of α-helical cytokines. In synergy with other growth

factors like G-CSF, GM-CSF, SCF, and IL-3 Flt3-ligand stimulates the proliferation and differentiation of primitive hematopoietic stem cells. Early B cell lineage differentiation as well as expansion of monocytes and immature dendritic cells is stimulated. Flt3-ligand is expressed by T lymphocytes and bone marrow stromal fibroblasts as a membrane-bound and a soluble isoform. Both isoforms signal through the tyrosine kinase receptor Flt3/Flk-2, which is restricted to cells of hematopoietic origin. Mouse Flt3-Ligand is also active on human cells.

#### 1.2 Applications

Mouse Flt3-Ligand can be used for a variety of applications, including:

- Inducing of maturation and expansion of dendritic cells (DCs) *in vivo* and for the *in vitro* generation of bone marrow-derived DCs.
- Generation of eosinophils from bone marrow progenitor cells.
- Studies on allergic airway inflammation in mouse models.

Optimal concentration for a specific application should be determined by a dose-response experiment.

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