

## Active Recombinant Human FLT3LG

**Cat. No.** FLT3LG-1235H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Flt3-Ligand is a soluble 17.6kDa polypeptide containing 155 amino acid residues, which comprises of the extracellular transmembrane domain of the Flt3-ligand protein. Flt3-ligand (flk2-ligand) stimulates the proliferation and colony formation of certain BM precursor cells including CD34+ cells.
<b>Description</b>	Dendritic cells (DCs) provide the key link between innate and adaptive immunity by recognizing pathogens and priming pathogen-specific immune responses. FLT3-LG controls the development of DCs and is particularly important for plasmacytoid DCs and CD8(see MIM 186910)-positive classical DCs and their CD103-positive tissue counterparts.
<b>Source</b>	E. coli
<b>Species</b>	Human
<b>Form</b>	Lyophilized from a 0.2µm filtered solution in 20mM Tris-HCl, 20mM NaCl, pH7.4.
<b>Bio-activity</b>	rHuFlt3-L is fully biologically active when compared to standards. Its specific activity is .1.106 units/mg.
<b>Endotoxin</b>	≤1EU/µg, determined by the LAL method.
<b>Purity</b>	≥98%, as determined by SDS-PAGE and HPLC method.
<b>Usage</b>	FOR RESEARCH ONLY

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**Storage**

Lyophilized samples are stable for greater than six months from date of receipt at -20 centigrade to -70 centigrade. The reconstituted samples should be stored under sterile condition in working aliquots at -20 centigrade to -70 centigrade. Avoid repeated freeze-thaw cycles.

**Reconstitution**

It is recommended to reconstitute the lyophilized rHuFlt3-L in sterile ddH<sub>2</sub>O not less than 100µg/ml of the cytokine solution.

## GENE INFORMATION

<b>Gene Name</b>	FLT3LG fms-related tyrosine kinase 3 ligand [ <i>Homo sapiens</i> ]
<b>Official Symbol</b>	FLT3LG
<b>Synonyms</b>	FL; FLT3L; fms-related tyrosine kinase 3 ligand; flt3 ligand
<b>Gene ID</b>	2323
<b>mRNA Refseq</b>	NM_001204502
<b>Protein Refseq</b>	NP_001191431
<b>MIM</b>	600007
<b>UniProt ID</b>	P49771
<b>Chromosome Location</b>	19q13.3
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem; Pathways in cancer, organism-specific biosystem

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**Function**

cytokine activity; protein homodimerization activity; receptor binding

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