

Active Recombinant Human FLT3LG, Fc-tagged

Cat. No. FLT3LG-246H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The receptor-binding domain of human FLT3L is fused at the N-terminus to the Fc portion of human IgG1.
Species	Human
Source	CHO
Description	FMS-like tyrosine kinase 3 ligand (FLT3L) acts as a growth factor that increases the number of immune cells (lymphocytes (B cells and T cells)) by activating the hematopoietic progenitors. It binds to FLT3 (CD135) which is found on multipotent progenitor (MPP) and common lymphoid progenitor (CLP) cells in mice. FLT3L induces the mobilization of the hematopoietic progenitors and stem cells in vivo which may help the system to kill cancer cells. FLT3L is crucial for steady-state pDC (plasmacytoid dendritic cells) and cDC (classical dendritic cells) development. Deficiency of FLT3L causes a dramatic decrease in DC numbers, whereas increasing its availability increase in DC numbers.
Form	Liquid. In PBS (sterile).
Bio-activity	In vitro and in vivo generation of conventional and plasmacytoid dendritic cells (DC). FLT3L increases in vivo both NK and DC cells numbers in the spleen when mice are injected intraperitoneally with 2 or 10 µg, daily for 10 days (slightly higher effect a
Purity	Protein A affinity purified.

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Stability	Stable for at least 6 months after receipt when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions.
Concentration	1mg/ml

GENE INFORMATION

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

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Function

cytokine activity; protein homodimerization activity; receptor binding; receptor tyrosine kinase binding;

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