

Active Recombinant Human FLT3LG

Cat. No. FLT3LG-8901H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FLT3LG was expressed in CHO Cells.
Species	Human
Source	CHO
Description	Fms-related tyrosine kinase 3 ligand (Flt3L) is growth factor stimulates the proliferation and differentiation of hematopoietic multipotent progenitors and promotes proliferation of NK cells and dendritic cell subgroups by combination with other growth factors. Flt3L is produced by T cells and stromal fibroblasts, and targeted various cells including hematopoietic stem cells, B cells, T cells, dendritic cells, and NK cells. Flt3L binds to its cognate tyrosine kinase receptor Flt3 and activates JAK/STAT signaling pathway[3]. Flt3L is a hematopoietic four helical bundle cytokine with structurally homologous to stem cell factor (SCF) and colony stimulating factor 1 (CSF-1) demonstrated four conserved cysteines and two glycosylation sites. Flt3L naturally as a non-disulfide-linked homodimer with multiple isoforms. The extracellular portion is approximately 160 amino acid residues in length and the cytoplasmic segment is approximately 20-30 amino acid residues in length.
Form	Lyophilized after extensive dialysis against PBS.
Bio-activity	ED₅₀ < 1 ng/ml, measured in a cell proliferation assay of human aml5 cells, corresponding to a specific activity of >1 x 10⁶ units/mg

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Molecular Mass	Multiple bands between 18~22 kDa, observed by reducing SDS-PAGE.
AA Sequence	Thr27-Pro185
Endotoxin	<0.2 eu/μg,="" determined="" by="" lal="">
Purity	>95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant protein remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhFlt-3L should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/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

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

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