

Recombinant Human FLT3LG protein, His-tagged

Cat. No. FLT3LG-312H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FLT3LG protein (Thr27-Pro185), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
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Species	Human
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Source	HEK293
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ProteinLength	159
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Description	FMS-like tyrosine kinase 3 ligand (Flt-3 Ligand) is also known as FL, Flt3L and FLT3LG, is an α-helical cytokine that promotes the differentiation of multiple hematopoietic cell lineages. FLT3LG is expressed as a noncovalentlylinked dimer by T cells and bone marrow and thymic fibroblasts. Each 36 kDa chain carries approximately 12 kDa of N- and O- linked carbohydrates. FLT3LG is structurally homologous to stem cell factor (SCF) and colony stimulating factor 1 (CSF-1). FLT3LG acts as a growth factor that increases the number of immune cells by activating the hematopoietic progenitors. It also induces the mobilization of the hematopoietic progenitors and stem cells in vivo which may help the system to kill cancer cells. FLT3LG induces the expansion of monocytes and immature dendritic cells as well as early B cell lineage differentiation. FLT3LG cooperates with IL2, IL6, IL7, and IL15 to induce NK cell development and with IL3, IL7 and IL11 to induce terminal B cell maturation. Animal studies also show FLT3LG to reduce the severity of experimentally induced allergic inflammation. FLT3LG is crucial for steady-state pDC and cDC development. A lack of FLT3L results in low levels of DCs.
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Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 19.9 kDa. The protein migrates as 28-30 kDa and 31-33 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	FLT3LG
Official Symbol	FLT3LG
Synonyms	FLT3LG; fms-related tyrosine kinase 3 ligand; flt3 ligand; FL; FLT3L
Gene ID	2323
mRNA Refseq	NM_001204502

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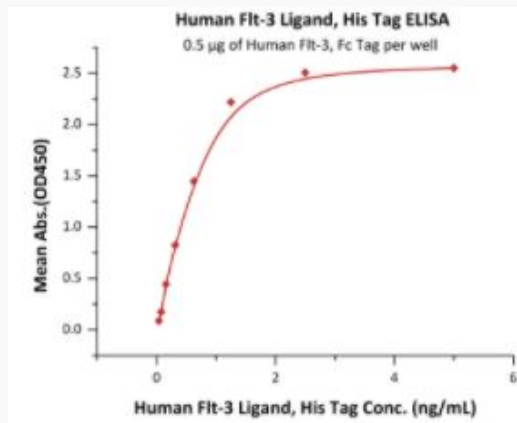
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_001191431

MIM 600007

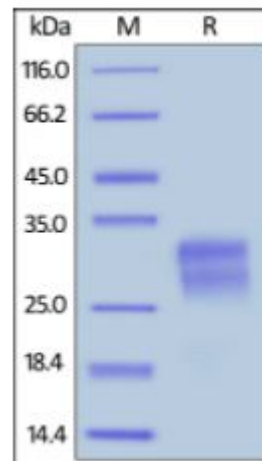
UniProt ID P49771

Bioactivity-ELISA of FLT3LG-312H



Immobilized Human Flt-3, Fc Tag at 5 µg/mL (100 µL/well) can bind Human Flt-3 Ligand, His Tag with a linear range of 0.1-0.6 ng/mL (QC tested).

SDS-PAGE of FLT3LG-312H



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Human Flt-3 Ligand, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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