

Recombinant Mouse Flt3l protein, His-tagged

Cat. No. Flt3l-457M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Flt3l (Gly27-Arg188) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).

Species Mouse

Source HEK293

ProteinLength Gly27-Arg188

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 noncovalently linked 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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Predicted N Terminal	Gly27
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 20.2 kDa. The protein migrates as 25-33 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -20 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	Flt3l
Official Symbol	Flt3l
Synonyms	Flt3lg, Ly72L
Gene ID	14256

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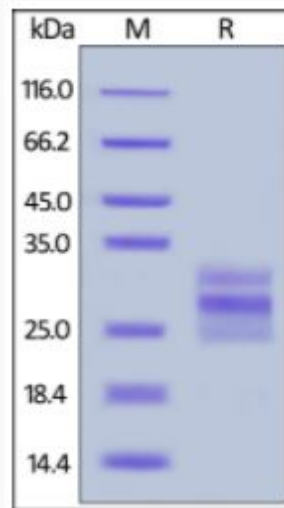
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mRNA Refseq [NM_013520.3](#)

Protein Refseq [NP_038548.3](#)

UniProt ID [P49772](#)

**SDS-PAGE of Flt3l-
457M**



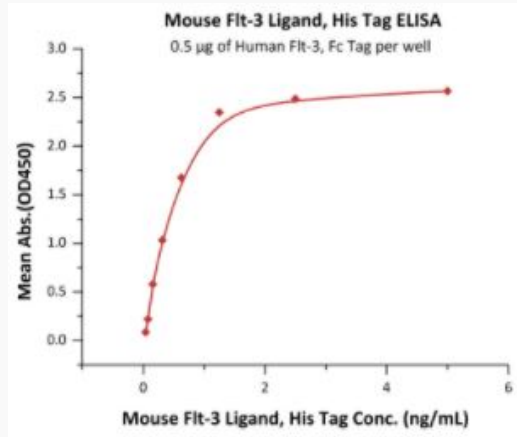
Mouse Flt-3 Ligand, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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**Bioactivity-ELISA of
Flt3l-457M**



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

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