**Purity** 

Background



## **PRODUCT INFORMATION**

FLT3LG **Target** 

**Synonyms** FLT3LG;FL;FLT3L;Flt3 ligand

Recombinant human FLT3 Ligand protein with C-Description

terminal mouse Fc and 6×His tag

**Delivery** In Stock **Uniprot ID** P49771 **Expression Host HEK293** 

C-Mouse Fc and 6×His Tag Tag

FLT3 Ligand(Thr27-Pro184) mFc(Pro99-Lys330) Molecular

Characterization 6×His tag

The protein has a predicted molecular mass of **Molecular Weight** 45.6 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before

Formulation & lyophilization. Please see Certificate of Analysis Reconstitution for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

FMS-like tyrosine kinase 3 ligand (Flt-3 Ligand) is also known as FL, Flt3L and FLT3LG, is an ahelical 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 facor 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

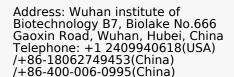
show FLT3LG to reduce the severity of

experimentally induced allergic inflammation FLT3LG is crucial for steady-state pDC and cDC development. A lack of FLT3L results in low levels

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of DCs.

Usage Research use only Conjugate Unconjugated





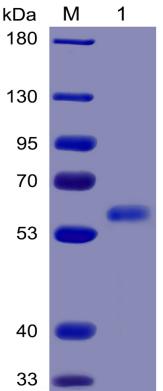


Figure 1. Human FLT3 Ligand Protein, mFc-His Tag on SDS-PAGE under reducing condition.

## Human FLT3 Ligand, mFc-His Tagged protein ELISA

0.2 µg of Human FLT3 Ligand, mFc-His Tagged protein per well

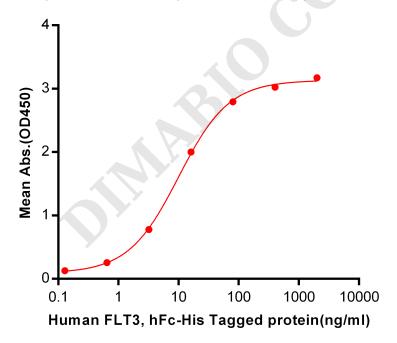


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human FLT3LG, mFc-His tagged protein (PME100033) can bind Human FLT3, hFc-His tagged protein PME100007 in a linear range of 0.128-10.02 ng/ml.

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