

## Recombinant Human FLT3LG protein, N-His-tagged

**Cat. No.** FLT3LG-157H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human FLT3LG protein (Thr27-Pro185) was fused to His-tag at the N-terminus and expressed in Baculovirus-Insect cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>               | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>        | Thr27-Pro185                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>          | FLT3L, also known as flt3 ligand, is a small molecule that acts as a growth factor that increases the number of immune cells by activating the hematopoietic progenitors. In vivo, FLT3L also induces the mobilization of the hematopoietic progenitors and stem cells. This may help the system to kill cancer cells. Dendritic cells (DCs) provide the key link between innate and adaptive immunity by recognizing pathogens and priming pathogen-specific immune responses. FLT3L controls the development of DCs and is particularly important for plasmacytoid DCs and CD8 -positive classical DCs and their CD133 -positive tissue counterparts. |
| <b>Predicted N Terminal</b> | His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>                 | Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>       | The recombinant human human FLT3LG consists of 175 amino acids and predicts a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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molecular mass of 20.2 KDa. It migrates as an approximately 27 KDa band in SDS-PAGE under reducing conditions.

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Purity** > 95% as determined by SDS-PAGE

**Stability** Samples are stable for up to twelve months from date of receipt at -20°C to -80°C.

**Storage** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.

**Shipping** In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.  
Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

**Gene Name** FLT3LG

**Official Symbol** FLT3LG

**Synonyms** FL; FLG3L; FLT3L

**Gene ID** 2323

**mRNA Refseq** NM\_001204502.2

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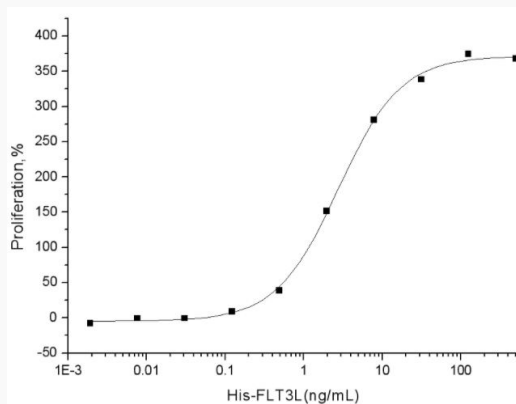
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**Protein Refseq** NP\_001191431.1

**MIM** 600007

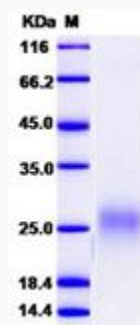
**UniProt ID** P49771

#### Activity of FLT3LG-157H



Measured in a cell proliferation assay using BaF3 mouse proB cells transfected with mouse Flt3. The ED50 for this effect is typically 2-11 ng/mL.

#### SDS-PAGE of FLT3LG-157H



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