

## FLT3LG Protein, Human (Tag Free)

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| <b>Cat. No.:</b>         | HY-P700072   |
| <b>Synonyms:</b>         | Flt-3 Ligand; Flt3 ligand; FL; SL cytokine; Flt-3L |
| <b>Species:</b>          | Human  |
| <b>Source:</b>           | E. coli  |
| <b>Accession:</b>        | P49771-1 (T27-A181)                                |
| <b>Gene ID:</b>          | 2323   |
| <b>Molecular Weight:</b> | Approximately 17.61 kDa                            |

### PROPERTIES

|                                |   |
|--------------------------------|---|
| <b>AA Sequence</b>             | <p>T Q D C S F Q H S P    I S S D F A V K I R    E L S D Y L L Q D Y    P V T V A S N L Q D</p> <p>E E L C G G L W R L    V L A Q R W M E R L    K T V A G S K M Q G    L L E R V N T E I H</p> <p>F V T K C A F Q P P    P S C L R F V Q T N    I S R L L Q E T S E    Q L V A L K P W I T</p> <p>R Q N F S R C L E L    Q C Q P D S S T L P    P P W S P R P L E A    T A P T A</p> |
| <b>Biological Activity</b>     | <p>1. Immobilized Human FLT3LG, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human FLT3, hFc Tag with the EC<sub>50</sub> of 46.0ng/ml determined by ELISA.</p> <p>2. The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of human AML5 cells is &lt; 1.0 ng/ml.</p>   |
| <b>Appearance</b>              | Lyophilized powder.   |
| <b>Formulation</b>             | Lyophilized from a 0.2 µm filtered solution of PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Endotoxin Level</b>         | < 1 EU/µg of protein by gel clotting method   |
| <b>Reconstitution</b>          | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).   |
| <b>Storage &amp; Stability</b> | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.  |
| <b>Shipping</b>                | Room temperature in continental US; may vary elsewhere.   |

### DESCRIPTION

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| <b>Background</b> | FLT3LG protein serves as a potent stimulator of early hematopoietic cell proliferation through the activation of FLT3, demonstrating synergistic effects when combined with various colony-stimulating factors and interleukins. This homodimeric protein, particularly in isoform 2, plays a crucial role in promoting the expansion and differentiation of |
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hematopoietic progenitor cells. Its ability to activate FLT3 and collaborate with other signaling molecules underscores its significance in regulating hematopoiesis and maintaining the balance of the hematopoietic system.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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