

Animal-Free FLT3LG Protein, Human (His)

Cat. No.:	HY-P700072AF
Synonyms:	Flt-3 Ligand; Flt3 ligand; FL; SL cytokine; Flt-3L
Species:	Human
Source:	E. coli
Accession:	P49771-1 (T27-A181)
Gene ID:	2323
Molecular Weight:	Approximately 18.6 kDa

PROPERTIES

AA Sequence	<p> M 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 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 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 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>
Biological Activity	The ED ₅₀ is <0.8 ng/mL as measure by its ability to induce proliferation in BaF3 cells transfected with mouse Flt-3, corresponding to a specific activity of recombinant human Flt-3 Ligand is > 1.5 x 10 ₆ unit/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p> 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 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. </p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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