

Active Recombinant Human FLT3LG Protein

Cat. No. FLT3LG-100H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FLT3LG Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Fms-related tyrosine kinase 3 ligand (FLT-3 ligand) is a growth factor that regulates hematopoietic cell proliferation. FLT-3 ligand signaling is transmitted through the fms-related tyrosine kinase 3 (FLT-3) receptor. FLT-3 ligand promotes the long-term expansion and differentiation of pro-B cells in the presence of interleukin 7 (IL-7) or in combination of IL-7 and interleukin 3 (IL-3). Human FLT-3 ligand is active on mouse cells.
Bio-activity	OCI-AML5 cell proliferation, ≤ 10 ng/mL; $\geq 1.0 \times 10^5$ units/mg
Molecular Mass	Monomer, 17.7 kDa (155 aa)
AA Sequence	MTQDCSFQHSPISDFAVKIRELSDYLLQDYPVTVASNLQDEELCGGLWRLVLAQR WMERLKTVAGSKMQGLLERVNTIEHFVTKCAFQPPPSCLRFBVQTNISRLLQETSEQL VALKPWITRQNFRCLELQCQPDSSTLPPPWSRPLEATAPT
Endotoxin	≤ 1 EUs/ μ g, Kinetic LAL
Purity	$\geq 95\%$, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM NaCl, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	FLT3LG fms-related tyrosine kinase 3 ligand [Homo sapiens (human)]
Official Symbol	FLT3LG
Synonyms	FLT3LG; fms-related tyrosine kinase 3 ligand; flt3 ligand; FL; FLT3L;
Gene ID	2323
mRNA Refseq	NM_001204502
Protein Refseq	NP_001191431

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MIM	600007
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UniProt ID	P49771
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