

GFH21 Recombinant Human FLT-3 Ligand

Description

Fms-related tyrosine kinase 3 ligand (FLT-3 Ligand) is a growth factor that regulates hematopoietic cell proliferation. FLT-3 Ligand signalling 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.

Length	155 aa
Molecular Weight	17.7 kDa
Source	E. coli
Accession Number	P49771
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

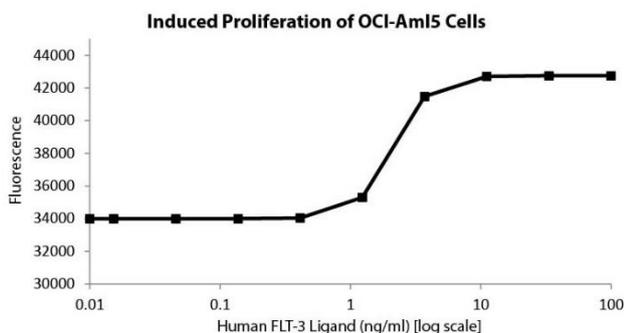
Specifications

Alternative Names	Flt3 L, Fms-related tyrosine kinase 3 ligand, Flt3 ligand, SL cytokine, FL, fIt3L, FLT3L
Biological Activity	Human FLT-3 Ligand is fully biologically active when compared to standard. The activity is determined by the proliferation of OCI-Aml5 cells and it is typically less than 10 ng/ml. This corresponds to an expected specific activity of 1 x 10 ⁵ units/mg.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
AA Sequence	MTQDCSFQHS PISSDFAVKI RELSDYLLQD YPVTVASNLQ DEELCGGLWR LVLAQRWMER LKTAVGSKMQ GLLERVNTEI HFVTKCAFQP PPSCLRFVQT NISRLQETS EQLVALKPWI TRQNF ^{SR} CLE LQCQ ^{PD} SSTL PPWSPRPLE ATAPT

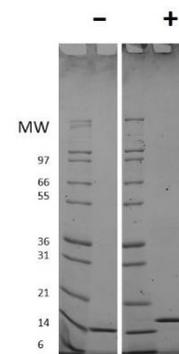
Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced proliferation of OCI-Aml5 cells assay for Human FLT-3 Ligand. Cell proliferation was measured to calculate the ED50, which is as expected less than 10 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human FLT-3 Ligand has a predicted Mw of 17.7 kDa.