GFM6 Recombinant Mouse 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).

Length	163 aa
Molecular Weight	18.6 kDa
Source	E. coli
Accession Number	P49772
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

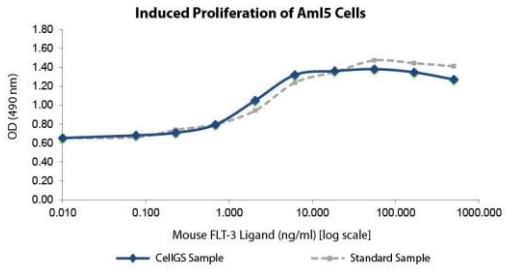
Specifications

Alternative Names	FLt3 L, Fms-related tyrosine kinase 3 ligand, Flt3 ligand, SL cytokine, FL, flt3L, FLT3L
Biological Activity	Mouse FLT-3 Ligand is fully biologically active when compared to standard. The activity is determined by the proliferation of 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 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	MTPDCYFSHS PISSNFKVKF RELTDHLLKD YPVTVAVNLQ DEKHCKALWS LFLAQRWIEQ LKTVAGSKMQ TLLEDVNTEI HFVTSCTFQP LPECLRFVQT NISHLLKDTC TQLLALKPCI GKACQNFSRC LEVQCQPDSS TLLPPRSPIA LEATELPEPR PRQ

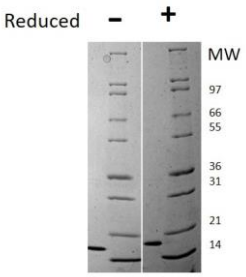
Preparation and Storage

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 Aml5 cells assay for Mouse 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. Mouse FLT-3 Ligand has a predicted Mw of 18.6 kDa.