

HumanKine[®] FLT3 Ligand (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human FLT3 Ligand is expressed from human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 24 to 30 kDa. This cytokine is produced in a serum-free, chemically defined media. The molecular mass is a narrower range than reported when this cytokine is expressed in insect Sf21 cells (17 to 30 kDa), emphasizing the difference in glycosylation in different expression systems. FLT3 Ligand is a growth factor that regulates proliferation of early hematopoietic cells. FLT3 Ligand binds to cells expressing the tyrosine kinase receptor FLT3. FLT3 Ligand by itself does not stimulate proliferation of early hematopoietic cells, but synergizes with other CSFs and interleukins to induce growth and differentiation.

Alternative Names

FL, Flt3 ligand, Flt3L, FLT3LG, SL cytokine

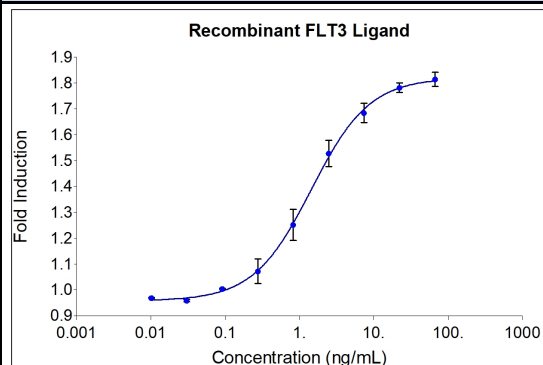
Source

Human Embryonic Kidney cells (HEK293). HEK293-derived FLT3 Ligand protein

Specifications

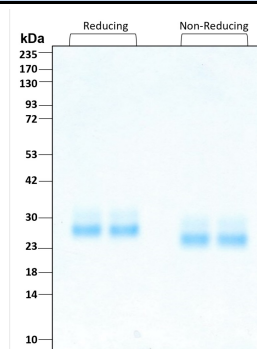
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of the human acute myeloid leukemia cell line OCI-AML5	0.4-3.0 ng/mL
Molecular Mass	SDS-PAGE	27 to 34 kDa reduced, 23 to 30 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human FLT3 (HZ-1151) Ligand stimulates dose-dependent proliferation of the human acute myeloid leukemia cell line (OCI-AML5). Viable cell number was quantitatively assessed by PrestoBlue[®] Cell Viability Reagent. OCI-AML5 cells were treated with increasing concentrations of recombinant human FLT3 Ligand for 72 hours. The EC50 was determined using

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile water containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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Document #: FR-QA118-101 Rev 0
Data Sheet Version #: 1

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