

Recombinant Human Flt-3 Ligand

Catalog Number: SJA07

Strength: 50µg

Specifications and Use

Description	<ul style="list-style-type: none">● Flt3-L is a growth factor that regulates proliferation of early hematopoietic cells. Flt3-L binds to cells expressing the tyrosine kinase receptor Flt3. By itself, Flt3-L does not stimulate proliferation of early hematopoietic cells. Instead, it synergizes with other colony-stimulating factors (CSFs) and interleukins to induce growth and differentiation.
Source	<ul style="list-style-type: none">● Insect cell (High Five).
Molecular Mass	<ul style="list-style-type: none">● Theoretical molecular mass is about 19.1 kD.
Purity	<ul style="list-style-type: none">● ≥97%.
Endotoxin Level	<ul style="list-style-type: none">● <1EU/µg, determined by the LAL method.
Biological Activity	<ul style="list-style-type: none">● Measured in a cell proliferation assay using M1. The specific Activity shall be not less than 3.1 x10⁶ RU/mg
Formulation	<ul style="list-style-type: none">● Lyophilized from a 0.2µm filtered solution in 50mM NaAc, 50 mM NaCl, pH4.0.
Reconstitution	<ul style="list-style-type: none">● It is recommended to reconstitute the lyophilized rHuFlt3-L in 0.2ml sterile water.
Storage	<ul style="list-style-type: none">● Lyophilized samples are stable for 12 months from date of manufacture at -20°C to -70°C. The relevant stability study is in progress, and the expiry date would be updated once the stability study is finished.● Upon reconstitution, this cytokine can be stored under sterile conditions at 2-8°C for one month or at -20°C to -70°C in a manual defrost freezer for three months without detectable loss of activity.● Avoid repeated freeze-thaw cycles.

Human Flt-3 Ligand

Flt-3 Ligand, also known as FL, is an α-helical cytokine that promotes the differentiation of multiple hematopoietic cell lineages. Mature human Flt-3 Ligand consists of a 158 amino acid (aa) extracellular domain (ECD) with a cytokine-like domain and a juxtamembrane tether region, a 21 aa transmembrane segment, and a 30 aa cytoplasmic tail. Flt-3 Ligand is expressed as a noncovalently-linked dimer by T cells and bone marrow and thymic fibroblasts. Animal studies show Flt-3 Ligand to reduce the severity of experimentally induced allergic inflammation.

FOR LABORATORY USE ONLY.