Recombinant Human FLT3LG (C-6His)

Catalog No.: RP0044

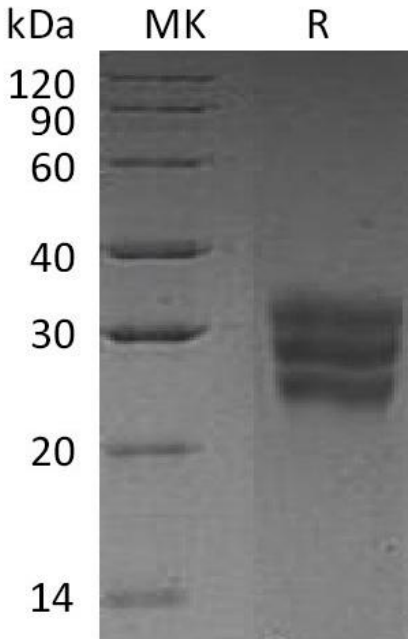
Basic Information

Information	
Source	*Human Cells*
Description	Recombinant Human Fms-like Tyrosine Kinase 3 Ligand is produced by our Mammalian expression system and the target gene encoding Thr27-Pro184 is expressed with a 6His tag at the C-terminus.
Accession	P49771
Known As	Fms-Felated Tyrosine Kinase 3 Ligand; Flt3 Ligand; Flt3L; SL Cytokine; FLT3LG
Predicted Mol Mass	19 KDa
Apparent Mol Mass	24-32 KDa, reducing conditions

Properties	
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0.
Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Endotoxin	< 0.01 EU/μg as determined by LAL test.
Reconstitution	Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

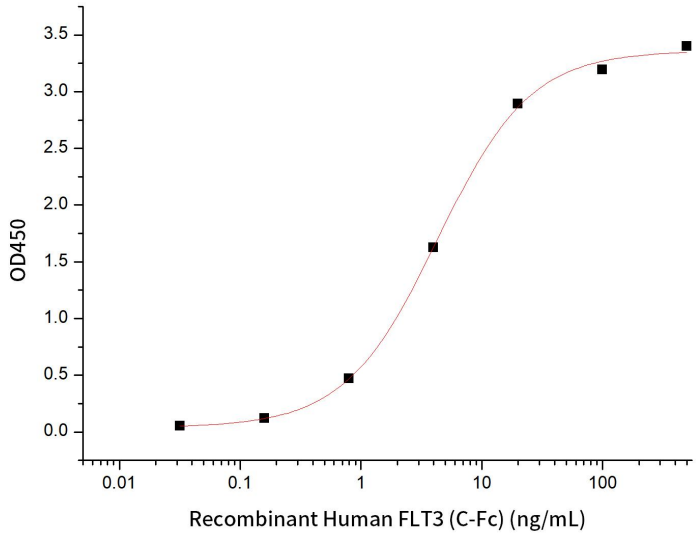
Experimental Data

Purity-SDS-PAGE



Greater than 95% as determined by reducing SDS-PAGE. (QC verified)

Bioactivity-Cell Based Assay



Immobilized Human FLT3LG (C-6His) at 5 μg/ml (100 μl/well) can bind Human FLT3 (C-Fc). The EC50 of Human FLT3 (C-Fc) is not higher than 10 ng/ml.

Background

Fms-Related Tyrosine Kinase 3 Ligand (FLT3LG) is a hematopoietic four helical bundle cytokine. Mature human Flt-3 Ligand consists of a extracellular domain (ECD) with a cytokine-like domain and a juxtamembrane tether region, a transmembrane segment, and a cytoplasmic tail. Human and mouse Flt-3 Ligand show cross-species activity. Flt-3 Ligand is expressed as a noncovalently-linked dimer by T cells and bone marrow and thymic fibroblasts.It is structurally homologous to stem cell factor (SCF) and colony stimulating facor 1 (CSF-1). In synergy with other growth factors, Flt3 ligand stimulates the proliferation and differentiation of various blood cell progenitors by activiation of Flt 3 receptor.