

Recombinant Human Flt3 ligand/Flt3L Protein

Catalog No.: RP00175

Sequence Information

Species **Gene ID**
Human 2323

Swiss Prot **Tags**
P49771 C-His

Synonyms
FL,FLT3L,FLT3LG,FLT3LG

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
 determined by
 SDS-PAGE; ≥ 95
 % as determined
 by HPLC.

Calculated MW **Observed MW**
18.88 kDa 20-37 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

FLT3LG, also known as flt3 ligand, is a small molecule that acts as a growth factor that increases the number of immune cells by activating the hematopoietic progenitors. FLT3LG is expressed as a noncovalently-linked dimer by T cells and bone marrow and thymic fibroblasts. Alternate splicing of human FLT3LG also generates membrane-associated isoforms that contain either a truncated cytoplasmic tail or an 85 aa substitution following the cytokine domain. Both transmembrane and soluble FLT3LG signal through the tyrosine kinase receptor Flt-3/Flk-2. FLT3LG induces the expansion of monocytes and immature dendritic cells as well as early B cell lineage differentiation. It synergizes with IL-3, GM-CSF, and SCF to promote the mobilization and myeloid differentiation of hematopoietic stem cells. It cooperates with IL-2, -6, -7, and -15 to induce NK cell development and with IL-3, -7, and -11 to induce terminal B cell maturation.

Basic Information

Description

Recombinant Human Flt3 ligand/Flt3L Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr27-Pro185) of human FLT3L/Flt3 ligand/FLT3LG (Accession #NP_001450.2) fused with a 6×His tag at the C-terminus.

Activity

1、Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human Flt3 ligand at 2 μg/mL (100 μL/well) can bind Recombinant Human Flt-3 with a linear range of 0.128-3.97 ng/mL. 2、Measured in a cell proliferation assay using Human OCI-AML5 cells. The ED₅₀ for this effect is 0.09-0.36 ng/mL, corresponding to a specific activity of 2.78 ×10⁶~1.11×10⁷ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

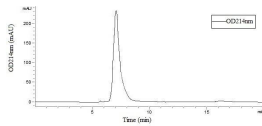
Contact

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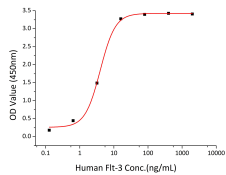
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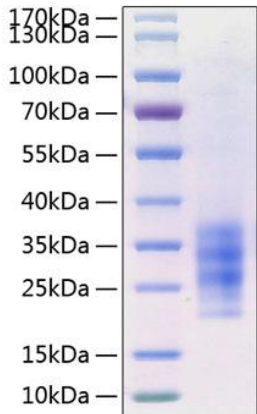
Validation Data



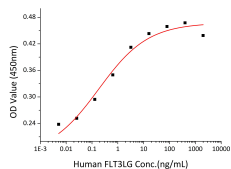
The purity of Recombinant Human Flt3 ligand/Flt3L Protein is greater than 95% as determined by SEC-HPLC.



Immobilized Recombinant Human Flt3 ligand at 2µg/mL (100µL/well) can bind Recombinant Human Flt-3 with a linear range of 0.128-3.97 ng/mL.



Recombinant Human Flt3 ligand/Flt3L Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Measured in a cell proliferation assay using Human OCI-AML5 cells. The ED₅₀ for this effect is 0.09-0.36 ng/mL, corresponding to a specific activity of 2.78×10⁶~1.11×10⁷ units/mg.