

Recombinant Human FLT-3/FLK-2/CD135 Protein

Catalog No.: RP01314

Sequence Information

Species	Gene ID
Human	2322
Swiss Prot	Tags
P36888	C-hFC&His

Synonyms

FLT3,CD135,FLK-2,FLK2,STK1

Product Information

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

Calculated MWObserved MW

26.79 kDa 120-130 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD135, also known as FLT-3, FLK-2, is a member of the CD system. CD135 is an important cell surface marker recognized by specific sets of antibodies to identify the types of hematopoietic (blood) progenitors in the bone marrow and its function to differentiate hematopoietic stem cells, which are CD135 negative, from multipotent progenitors, which are CD135 positive. CD135 is a receptor tyrosine kinase type III for the cytokine Flt3 ligand and activates signaling through second messengers by binding to Flt3. Signaling through CD135 is important for lymphocyte development. The encoding gene CD135 is a proto-oncogene to which mutations happened will lead to cancer such as leukemia.

Basic Information

Description

Active Recombinant Human FLT-3/FLK-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn27-Asn541) of human Flt-3 (Accession #NP_004110.2) fused with an 6×His tag and Fc tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Human FLT3L at 5 μg/mL (100 μL/well) can bind Human FLT3 with a linear range of 1.95-66.1 ng/mL.

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.

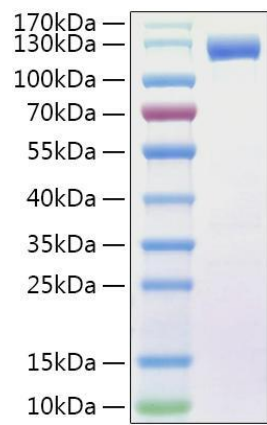
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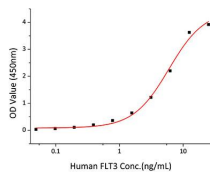
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Validation Data



Recombinant Human FLT-3/FLK-2/CD135 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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