

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

Catalog No.: RP00461

## Sequence Information

**Species**      **Gene ID**  
Human            2322

**Swiss Prot**    **Tags**  
P36888-1        C-His

**Synonyms**  
CD135; FLK2; STK-1; FLT-3

## Product Information

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

**Calculated MW** **Observed MW**  
59.22 kDa          80-110 kDa

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

**Formulation**  
Lyophilized from 0.22 μm filtered  
solution in PBS (pH 7.4). Normally  
8% trehalose is added as  
protectant before lyophilization.

**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 Flt-3 (fms-like tyrosine kinase) receptor, also named Flk-2 (fetal liver kinase) and Stk-1 (stem cell tyrosine kinase) is a member of the class III subfamily of receptor tyrosine kinases that also includes KIT, the receptor for SCF and FMS, the receptor for M-CSF. Tyrosine-protein kinase that acts as cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation and survival of hematopoietic progenitor cells and of dendritic cells. Promotes phosphorylation of SHC1 and AKT1, and activation of the downstream effector MTOR. Promotes activation of RAS signaling and phosphorylation of downstream kinases, including MAPK1/ERK2 and/or MAPK3/ERK1.

## Basic Information

### Description

Recombinant Human FLT3/Flk-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn27-Asn541) of Human FLT3/Flk-2 (Accession #P36888-1) fused with a C-His tag at the C-terminus.

### Activity

### 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.

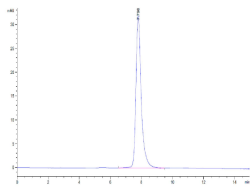
## Contact

☎ | 400-999-6126

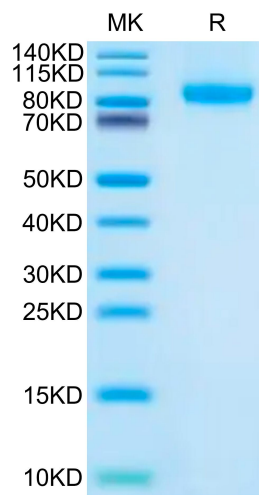
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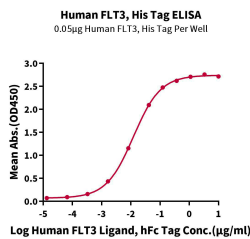
Validation Data



The purity of Human FLT3 is greater than 95% as determined by SEC-HPLC.



Recombinant Human FLT-3/FLK-2/CD135 Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human FLT3, His Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Human FLT3 Ligand, hFc Tag with the EC<sub>50</sub> of 12.3ng/mL determined by ELISA.