

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

Catalog No.: RP00461 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2322	P36888-1

Tags

C-His

Synonyms

CD135; FLK2; STK-1; FLT-3

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% 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.

Contact

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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

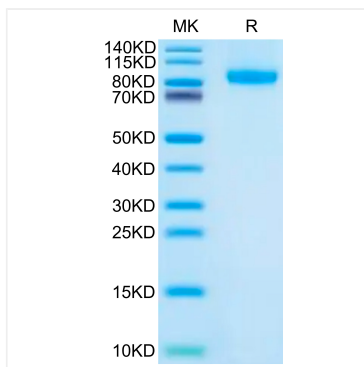
Recombinant Human FLT3/Flk-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn27-Asn541) of Human FLT3/Flk-2 (Accession #P36888-1) fused with a C-His tag at the C-terminus.

Bio-Activity

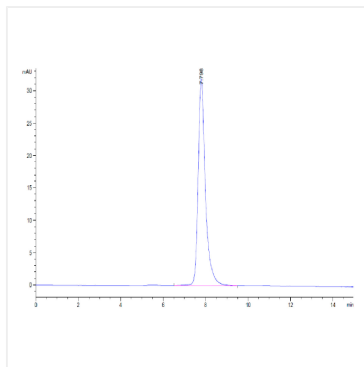
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

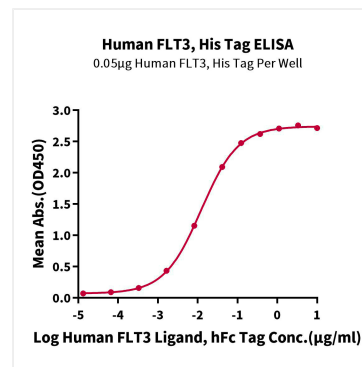
Validation Data



Human FLT3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



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 EC₅₀ of 12.3ng/mL determined by ELISA.