

Recombinant Human FLT-3/FLK-2 Protein

Catalog No.: RP01138 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2322	P36888

Tags

C-His

Synonyms

FLT3;CD135;FLK-2;FLK2;STK1

Product Information

Source	Purification
HEK293 cells	> 85 % by SDS-PAGE.

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution 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 freeze-thaw cycles.

Contact

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Background

This protein is a class III receptor tyrosine kinase that regulates hematopoiesis. This receptor is activated by binding of the fms-related tyrosine kinase 3 ligand to the extracellular domain, which induces homodimer formation in the plasma membrane leading to autophosphorylation of the receptor. The activated receptor kinase subsequently phosphorylates and activates multiple cytoplasmic effector molecules in pathways involved in apoptosis, proliferation, and differentiation of hematopoietic cells in bone marrow. Mutations that result in the constitutive activation of this receptor result in acute myeloid leukemia and acute lymphoblastic leukemia.

Basic Information

Description

Recombinant Human FLT-3/FLK-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Asn541) of human FLT3 (Accession #NP_004110.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human FLT3L at 0.5 μg/mL (100 μL/well) can bind FLT3 with a linear range of 0.05-1.3 ng/mL.

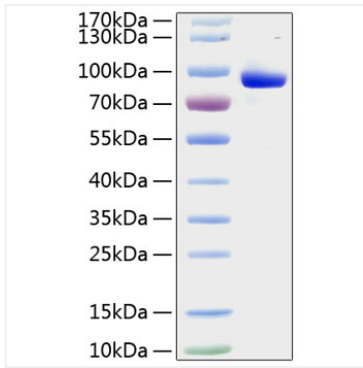
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

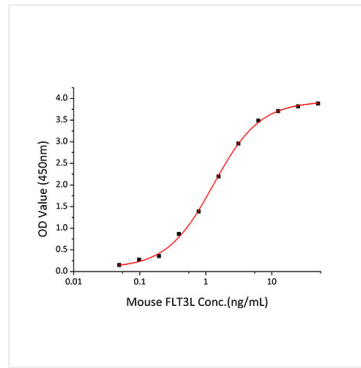
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human FLT-3/FLK-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 85-95 kDa.



Immobilized recombinant Human FLT3 at 0.5 $\mu\text{g/mL}$ (100 μL /well) can bind FLT3L with a linear range of 0.05-1.3 ng/mL.