

Recombinant Mouse FLT-3/FLK-2 Protein

Catalog No.: RP02957 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14255	Q00342

Tags

C-hFc

Synonyms

CD135; FLK-2; FLK2; STK1; FLT3

Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

Endotoxin

< 0.01 EU/μg

Formulation

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

Reconstitution

Centrifuge the tube 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 Mouse FLT-3/FLK-2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Ser544) of mouse FLT-3/FLK-2 (Accession #NP_034359.2) fused with a hFc tag at the C-terminus.

Bio-Activity

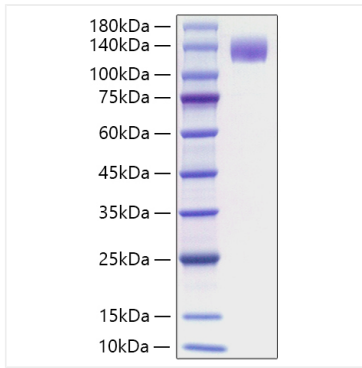
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

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 Mouse FLT-3/FLK-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100-140 kDa.