

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

Catalog No.: RP00459BLQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2322 P36888-1

Tags C-His&Avi

Synonyms

CD135; FLK2; STK-1; FLT-3

Product Information

Source Purification CHO cells ≥ 95 % as

determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

61.20 kDa 80-110 kDa

Endotoxin

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

Formulation

Supplied as 0.22 μm filtered solution in PBS (pH 7.4).

Reconstitution

Background

The FIt-3 (fms-like tyrosine kinase) receptor, also named FIk-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

Biotinylated Recombinant Human FLT3/Flk-2 Protein is produced by CHO 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&Avi tag at the C-terminus

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C. This product is stable at \leq -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

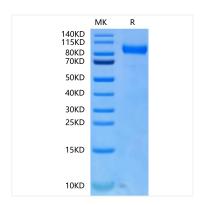
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

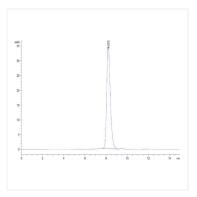
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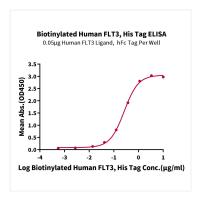
Validation Data



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



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



Immobilized Human FLT3 Ligand, hFc Tag at 0.5 μ g/mL (100 μ L/well) on the plate. Dose response curve for Biotinylated Human FLT3, His Tag with the EC₅₀ of 0.26 μ g/mL determined by ELISA.