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

Catalog No.: RP00459BLQ

Sequence Information

Species
Human

Gene ID
2322

Swiss Prot
P36888-1

Tags
C-His&Avi

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

Product Information

Source
CHO cells

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

Calculated MW
61.20 kDa

Observed MW
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 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
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.

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 -70℃

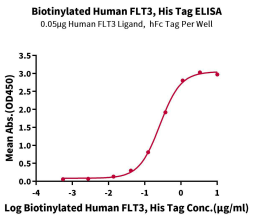
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

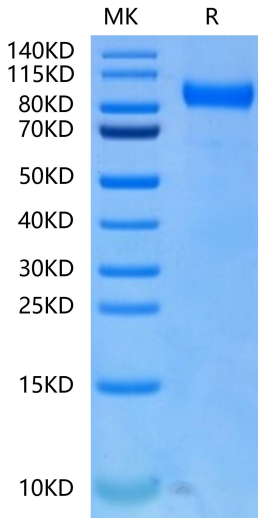
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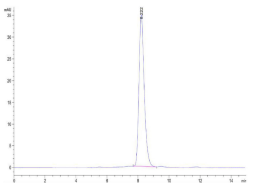
Validation Data



Immobilized Human FLT3 Ligand, hFc Tag at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Human FLT3, His Tag with the EC_{50} of 0.26 μg /mL determined by ELISA.



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.