Recombinant Human Siglec-3/CD33 Protein

Catalog No.: RP00554

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Sequence Information

Species
Human

Gene ID
945

Swiss Prot
P20138-1

Tags
C-hFc

Synonyms
CD33 molecule; CD33; FLJ00391; gp67; Siglec3; Siglec-3; p67

Product Information

Source
HEK293 cells

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

Calculated MW
53.6 kDa

Observed MW
68-80 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state.They are sialoadhesin/CD169/Siglec-1, CD22/Siglec-2, CD33/Siglec-3, Myelin-Associated Glycoprotein (MAG/Siglec-4a) and Siglecs 5 to 11. To date, no Siglec has been shown to recognized any cell surface ligand other than sialic acids, suggesting that interactions with glycans containing this carbohydrate are important in mediating the biological functions of Siglecs.

Basic Information

Description
Recombinant Human Siglec-3/CD33 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp18-His259) of Human Siglec-3/CD33 (Accession #P20138-1) fused with a C-hFc 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 -20℃

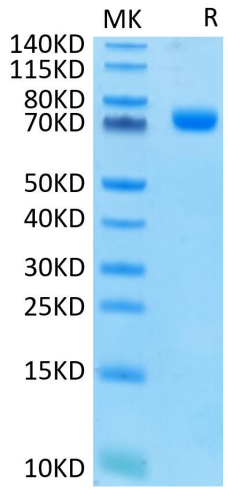
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

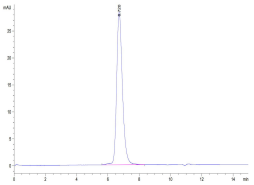
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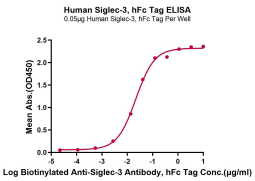
Validation Data



Recombinant Human Siglec-3/CD33 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human Siglec-3 is greater than 95% as determined by SEC-HPLC.



Immobilized Human Siglec-3, hFc Tag at 0.5 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Anti-Siglec-3 Antibody, hFc Tag with the EC_{50} of 21.8 ng/mL determined by ELISA.