Biotinylated Recombinant Human Siglec-2/CD22 Protein

Catalog No.: RP00578B

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Sequence Information

Species
Human

Gene ID
933

Swiss Prot
P20273-1

Tags
C-His&Avi

Synonyms
CD22 molecule; CD22; Siglec-2; B-cell receptor CD22; BL-CAM; SIGLEC2; SIGLEC2FLJ22814

Product Information

Source
HEK293 cells

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

Calculated MW
78.1 kDa

Observed MW
110-120 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

CD22, or cluster of differentiation-22, is a molecule belonging to the SIGLEC family of lectins. It is found on the surface of mature B cells and to a lesser extent on some immature B cells. CD22 a member of the immunoglobulin superfamily. CD22 functions as an inhibitory receptor for B cell receptor (BCR) signaling. It is also involved in the B cell trafficking to Peyer's patches in mice.

Basic Information

Description
Biotinylated Recombinant Human Siglec-2/CD22 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp20-Arg687) of Human Siglec-2/CD22 (Accession #P20273-1) 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 -20℃

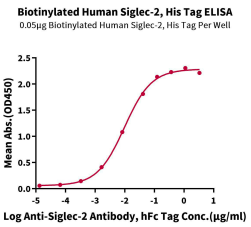
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

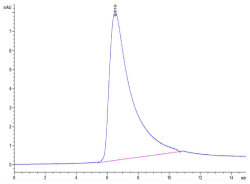
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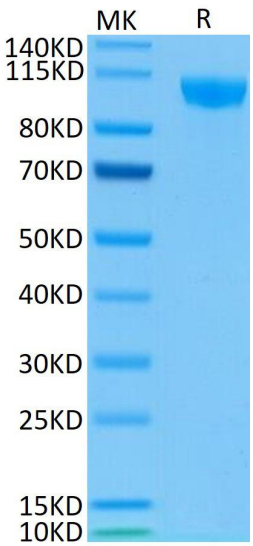
Validation Data



Immobilized Biotinylated Human Siglec-2, His Tag at 0.5 μg/mL (100 μL/well) on the streptavidin precoated plate (5 μg/mL). Dose response curve for Anti-Siglec-2 Antibody, hFc Tag with the EC_{50} of 9.8ng/mL determined by ELISA.



The purity of Biotinylated Human Siglec-2 is greater than 95% as determined by SEC-HPLC.



Biotinylated Recombinant Human Siglec-2/CD22 Protein was determined by Tris-Bis PAGE under reducing conditions.