

# Biotinylated Recombinant Human Siglec-2/CD22 Protein

Catalog No.: RP00578B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	933	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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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.

### Bio-Activity

### Shipping

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

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

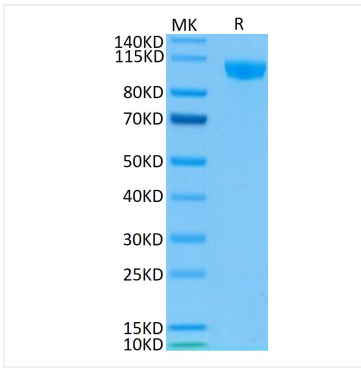
Avoid repeated freeze/thaw cycles.

### Operational Notes

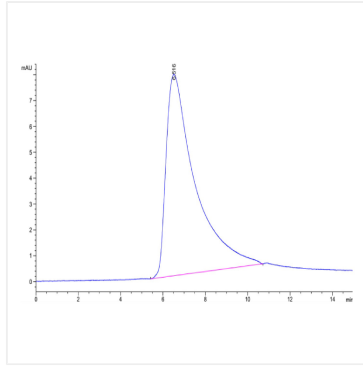
For your safety and health, please wear a lab coat and disposable gloves for handling.



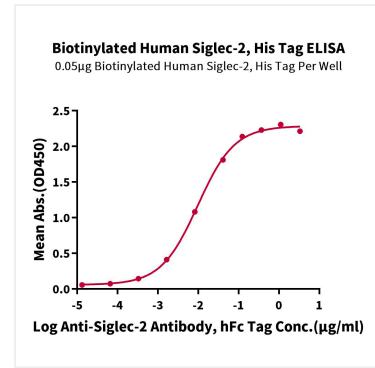
## Validation Data



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



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



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<sub>50</sub> of 9.8ng/mL determined by ELISA.