

# Biotinylated Recombinant Human Siglec-3/CD33 Protein

Catalog No.: RP00555BLQ Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 945 P20138-1

**Tags** C-His&Avi

**Synonyms** 

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

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW Observed MW

29.6 kDa 48-58 kDa

Endotoxin

< 1 EU/ $\mu g$  of the protein by LAL method.

## **Formulation**

Supplied as 0.22  $\mu$ m filtered solution in 50 mM MES, 500 mM NaCl, 200 mM Larginine (pH 7.4).

#### Reconstitution

### **Contact**

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# **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**

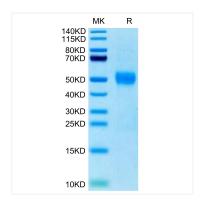
Biotinylated Recombinant Human Siglec-3/CD33 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp18-His259) of Human Siglec-3/CD33 (Accession #P20138-1) fused with a C-His&Avi tag at the C-terminus.

## **Bio-Activity**

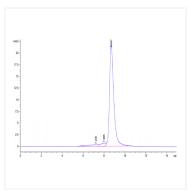
#### Storage

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.

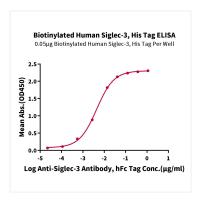
# **Validation Data**



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



The purity of Biotinylated Human Siglec-3 is greater than 90% as determined by SEC-HPLC.



Immobilized Biotinylated Human Siglec-3, His Tag at 0.5  $\mu$ g/mL (100  $\mu$ L/Well) on streptavidin (5  $\mu$ g/mL) precoated plate. Dose response curve for Anti-Siglec-3 Antibody, hFc Tag with the EC<sub>50</sub> of 4.4ng/mL determined by ELISA.