

Recombinant Human Siglec-3/CD33 Protein

Catalog No.: RP00159 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 945 P20138

Tags

C-hFc&His

Synonyms

CD33; SIGLEC-3; SIGLEC3; p67; CD33 molecule; SIGLEC-3; SIGLEC3; p67

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

53.63 kDa 70-90 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

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.

Contact

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Background

Myeloid cell surface antigen CD33 also known as Sialic acid binding Ig-like lectin 3, CD33 antigen or Siglec-3, is a member of the immunoglobulin superfamily and SIGLEC (sialic acid binding Ig-like lectin) family. This Single-pass type I membrane protein contains 1 Ig-like C2-type (immunoglobulin-like) domain and 1 Ig-like V-type (immunoglobulin-like) domain. CD33/Siglec-3 induces apoptosis in acute myeloid leukemia (in vitro). CD33/Siglec-3 can function as a sialic acid-dependent cell adhesion molecule and that binding can be modulated by endogenous sialoglycoconjugates when CD33 is expressed in a plasma membrane.

Basic Information

Description

Recombinant Human Siglec-3/CD33 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Asp18-His259) of human CD33/Siglec-3 (Accession #NP_001763.3) fused with an Fc, 6×His tag at the Cterminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD33 Protein at $1\mu g/mL$ (100 $\mu L/well$) can bind CD33 Rabbit pAb with a linear range of 0.03-1.66 ng/mL.

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.

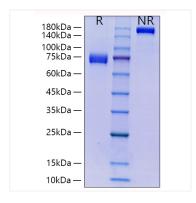
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

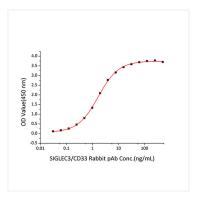
Operational Notes

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

Validation Data



Recombinant Human Siglec-3/CD33 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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