Recombinant Human Siglec-3/CD33 Protein

Catalog No.: RP00159

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Sequence Information

Species
Human

Gene ID
945

Swiss Prot
P20138

Tags
C-hFc&His

Synonyms
CD33, SIGLEC-3, SIGLEC3, p67, CD33 molecule,SIGLEC-3,SIGLEC3, p67

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
53.63 kDa

Observed MW
Approximately 75 kDa

Endotoxin
< 0.1 EU/μg 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.

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 C-terminus.

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

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℃

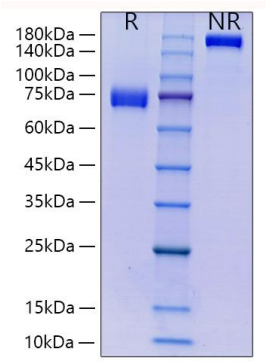
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

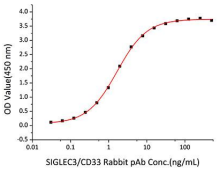
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Validation Data



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



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