

Synonym

CD33,SIGLEC3,gp67

Source

Rat Siglec-3, His Tag(CD3-R52H4) is expressed from human 293 cells (HEK293). It contains AA Asp 18 - Gln 240 (Accession # [F1LTZ3-1](#)).
Predicted N-terminus: Asp 18

Molecular Characterization

Siglec-3(Asp 18 - Gln 240)
F1LTZ3-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.
The protein has a calculated MW of 26.7 kDa. The protein migrates as 37-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.
>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

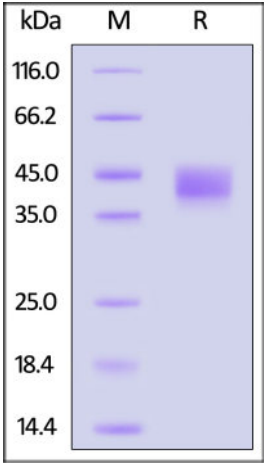
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

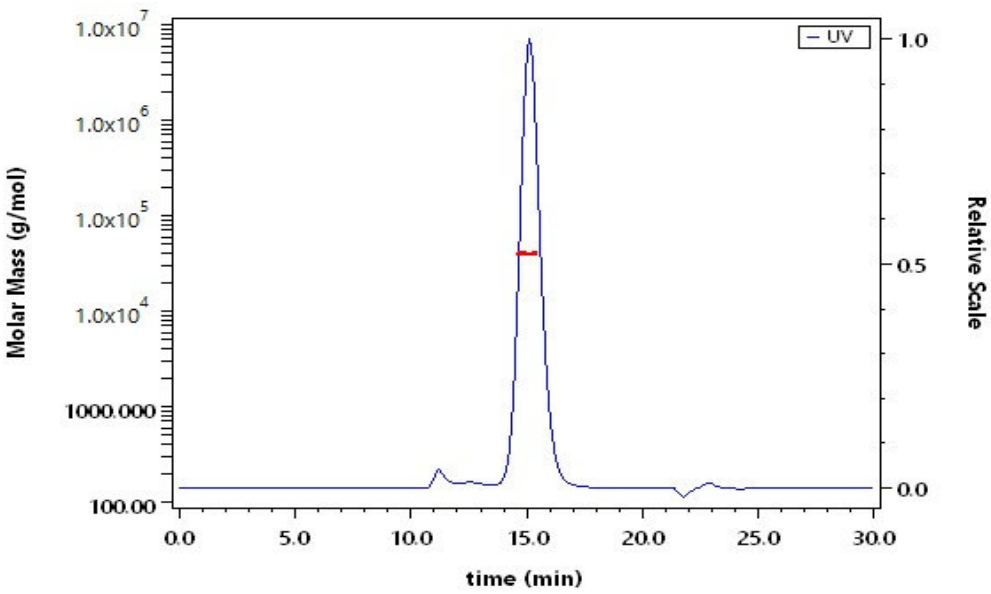
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Rat Siglec-3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

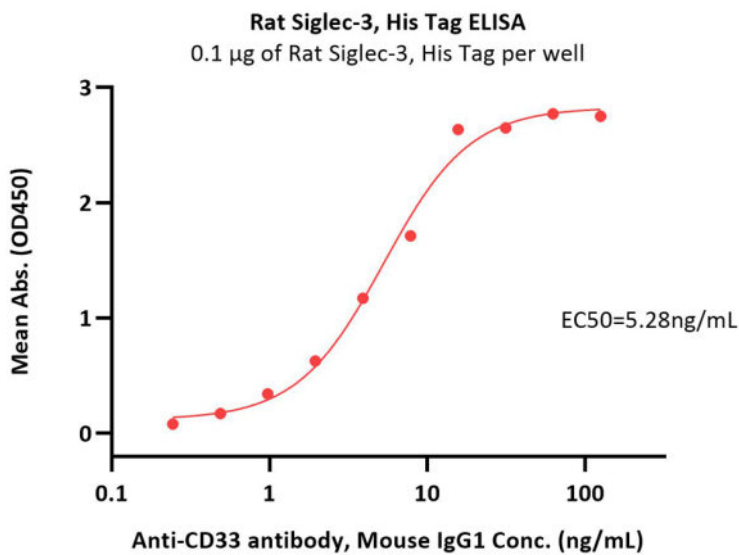


The purity of Rat Siglec-3, His Tag (Cat. No. CD3-R52H4) is more than 90% and the molecular weight of this protein is around 32-47 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA

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Immobilized Rat Siglec-3, His Tag (Cat. No. CD3-R52H4) at 1 µg/mL (100 µL/well) can bind Anti-CD33 antibody, Mouse IgG1 with a linear range of 0.2-16 ng/mL (QC tested).

Background

Myeloid cell surface antigen CD33 is also known as SIGLEC3, Siglecs (sialic acid binding Iglike lectins) and GP67, is a single-pass type I membrane protein which belongs to the immunoglobulin superfamily and SIGLEC (sialic acid binding Ig-like lectin) family. Human CD33 / Siglec-3 cD encodes a 364 amino acid (aa) polypeptide with a hydrophobic signal peptide, an N-terminal Ig-like V-type domain, one Ig-like C2-type domains, a transmembrane region and a cytoplasmic tail. CD33 / Siglec-3 usually considered myeloid-specific, but it can also be found on some lymphoid cells. In the immune response, CD33 / Siglec-3 may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. CD33 / Siglec-3 induces apoptosis in acute myeloid leukemia.

