# Rhesus macaque Siglec-15 / CD33L3 Protein, His Tag

Catalog # SG5-C52H6

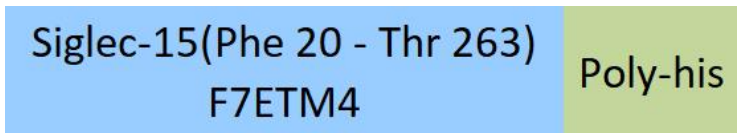
## Synonym

CD33 antigen-like 3,SIGLEC-15,CD33L3,sialic acid-binding Ig-like lectin 15,Siglec15,Siglec-15

## Source

Rhesus macaque Siglec-15 Protein, His Tag(SG5-C52H6) is expressed from human 293 cells (HEK293). It contains AA Phe 20 - Thr 263 (Accession # F7ETM4).
Predicted N-terminus: Phe 20

## Molecular Characterization




This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 28.1 kDa. The protein migrates as 30-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per μg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 μm filtered solution in PBS with Arginine, 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

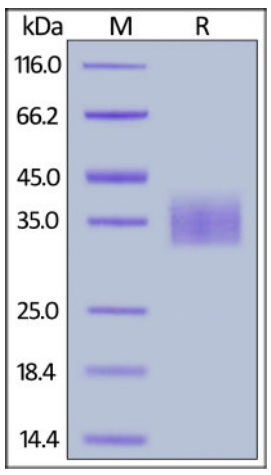
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

***Please avoid repeated freeze-thaw cycles.***

This product is stable after storage at:

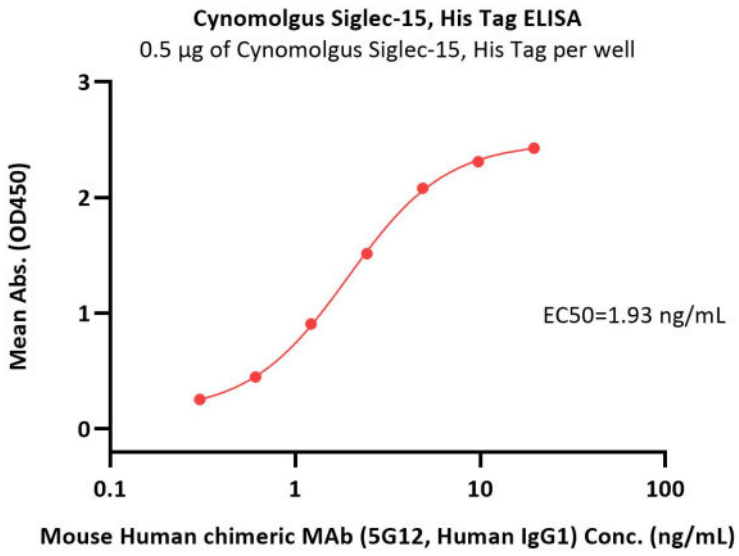
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



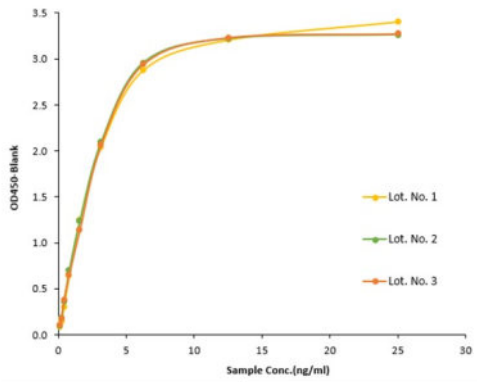

Rhesus macaque Siglec-15 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA




Immobilized Rhesus macaque Siglec-15, His Tag (Cat. No. SG5-C52H6) at 5 μg/mL (100 μL/well) can bind Mouse Human chimeric MAb (5G12, Human IgG1) with a linear range of 0.3-2 ng/mL (QC tested).

**Batch consistency**




| Lot. No. | EC50(μg/mL) |
|---|---|
| Lot. No. 1 | 0.0024 |
| Lot. No. 2 | 0.0022 |
| Lot. No. 3 | 0.0024 |

## Background

Siglec-15 is a DAP12-associated immunoreceptor, which belongs to the immunoglobulin superfamily and SIGLEC (sialic acid binding Ig-like lectin) family. Siglecs are cell surface proteins that bind sialic acid. They are found primarily on the surface of immune cells and are a subset of the I-type lectins. Siglec-15 consisting of immunoglobulin (Ig)-like domains, transmembrane domain and a short cytoplasmic tail. Siglec-15 is that recognizes sialylated glycans and regulates osteoclast differentiation. Siglec-15 is a potential therapeutic target for osteoporosis and plays a conserved regulatory role in the immune system of vertebrates.

## Clinical and Translational Updates