

**Synonym**

CD33, SIGLEC3, gp67

**Source**

Human Siglec-3 (140-232), Llama IgG2b Fc Tag(CD3-H5258) is expressed from human 293 cells (HEK293). It contains AA Asp 140 - Thr 232 (Accession # [P20138-1](#)).

Predicted N-terminus: Asp 140

**Molecular Characterization**

Siglec-3(Asp 140 - Thr 232)	LlamaFc(Glu 1 - Ser 243)
P20138-1	AAX73259.1

This protein carries a llama IgG2b Fc tag at the C-terminus.

The protein has a calculated MW of 37.8 kDa. The protein migrates as 50-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**Less than 0.01 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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.*

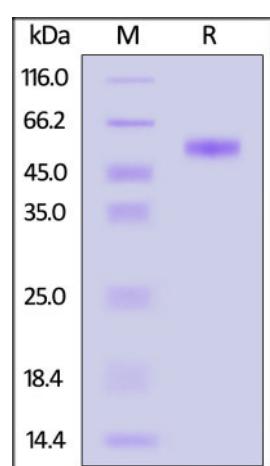
**Storage**

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

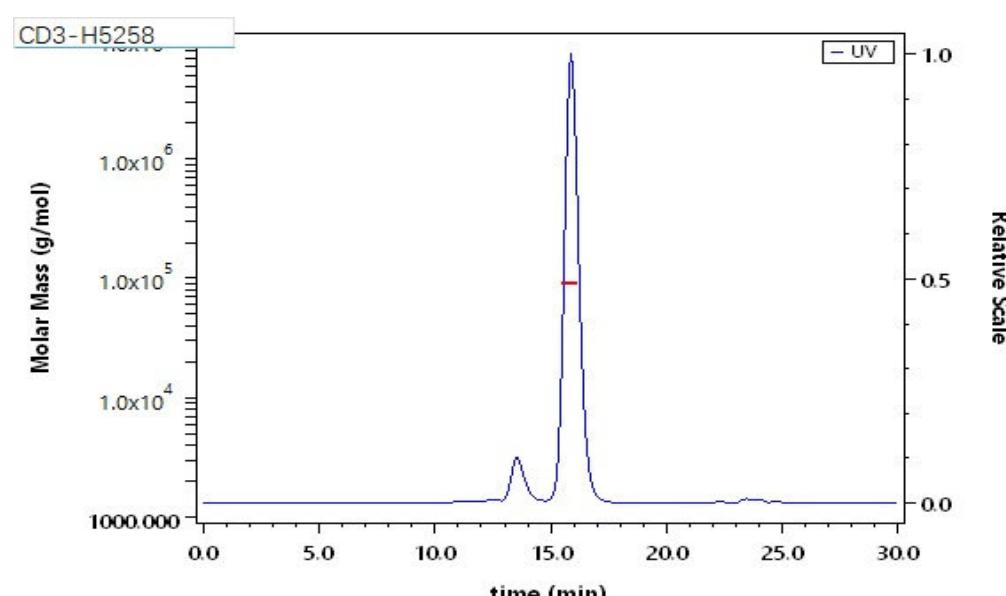
*Please avoid repeated freeze-thaw cycles.*

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**

Human Siglec-3 (140-232), Llama IgG2b Fc 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 Human Siglec-3 (140-232), Llama IgG2b Fc Tag (Cat. No. CD3-H5258) is more than 85% and the molecular weight of this protein is around 77-104 kDa verified by SEC-MALS.

[Report](#)

**Background**
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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.

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