



### Synonym

CDw328,D-siglec,A79 membrane protein,p75,Adhesion inhibitory receptor molecule 1, AIRM-1

### Source

Human Siglec-7, Fc (L118A, G120A, E201A) Tag(SI7-H5257) is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Leu 353 (Accession # [Q9Y286-1](#)).

Predicted N-terminus: Gln 19

### Molecular Characterization

L118A, G120A, E201A	
Siglec-7(Gln 19 - Leu 353) Q9Y286-1	Fc(Pro 100 - Lys 330) P01857-1

This protein carries a Fc (L118A, G120A, E201A) tag at the C-terminus. The protein has a calculated MW of 63.3 kDa. The protein migrates as 70-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. Mutations (L118A, G120A, E201A /EU number: L235A/G237A/E318A) in human immunoglobulin G1 (hIgG1) Fc strongly reduce binding of the Fc mutant to cell expressed FcγRs, resulting in an almost 4-fold reduction in ADCC compared to that of wild type human IgG1.

### Endotoxin

Less than 0.01 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 25 mM MES, 150 mM NaCl 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

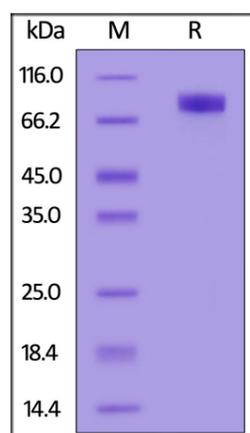
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

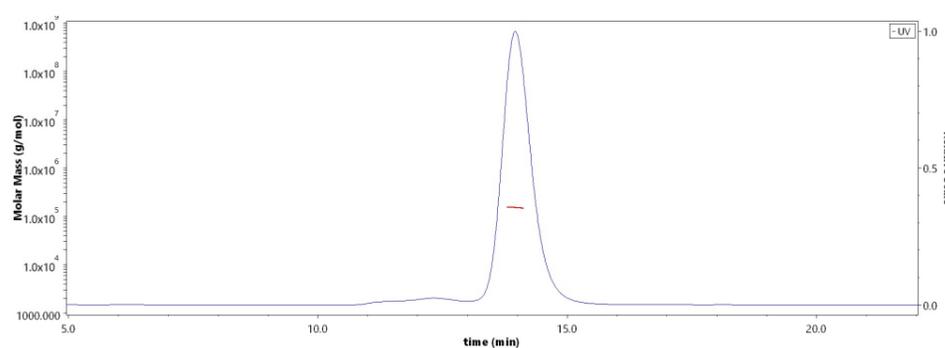
### SDS-PAGE



Human Siglec-7, Fc (L118A, G120A, E201A) Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

### Bioactivity-ELISA

### SEC-MALS

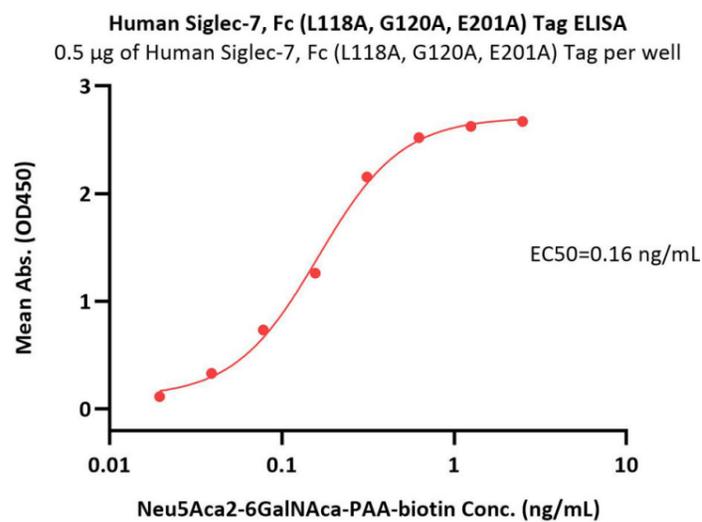


The purity of Human Siglec-7, Fc (L118A, G120A, E201A) Tag (Cat. No. SI7-H5257) is more than 90% and the molecular weight of this protein is around 140-170 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human Siglec-7, Fc (L118A, G120A, E201A) Tag (Cat. No. SI7-H5257) at 5 µg/mL (100 µL/well) can bind Neu5Aca2-6GalNAca-PAA-biotin with a linear range of 0.02-0.313 ng/mL (QC tested).

## Background

Siglec-7 is a member of the human CD33-related Siglec receptor. The extracellular region of Siglec-7 is characterized by an N-terminal V-set Ig domain that can bind sialic acid and two C2-set Ig domains. The cytoplasmic tail of Siglec-7 has one immune-receptor tyrosine-based inhibitory motif (ITIM) and one ITIM-like motif. Siglec-7 is considered as a sialic acid-dependent immunoreceptor with inhibitory potential and expressed predominantly on human NK cells, monocytes and a small subset of CD8<sup>+</sup> T cells.

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