

### 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**

Siglec-7(Gln 19 - Leu 353) Fc(Pro 100 - Lys 330)
Q9Y286-1 P0185 7-1

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 Fc $\gamma$ Rs, 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.

## **Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

#### **Formulation**

Lyophilized from 0.22  $\mu m$  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

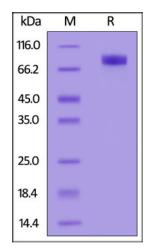
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

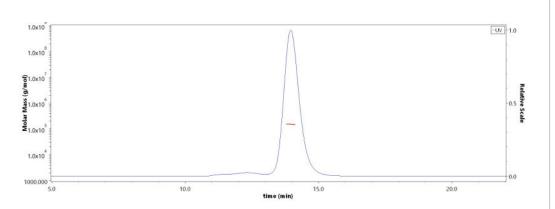
# SDS-PAGE



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**

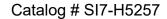
## **SEC-MALS**



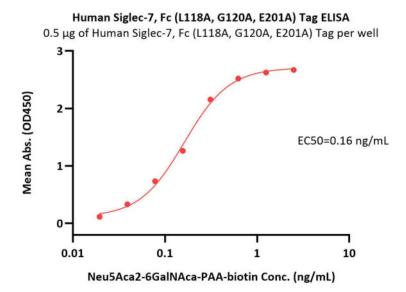
The purity of Human Siglec-7, Fc (L118A, G120A, E201A) Tag (Cat. No. SI7-H5257) is more than 90% and the molecular weight of this protein is around 140-170 kDa verified by SEC-MALS.

Report

# Human Siglec-7 / CD328 Protein, Fc (L118A, G120A, E201A) Tag (MALS verified)







Immobilized Human Siglec-7, Fc (L118A, G120A, E201A) Tag (Cat. No. SI7-H5257) at 5  $\mu$ g/mL (100  $\mu$ L/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+ T cells.

# **Clinical and Translational Updates**

Please contact us via <u>TechSupport@acrobiosystems.com</u> if you have any question on this product.