Human Siglec-9 Protein, Fc Tag

Catalog # SI9-H5256

Synonym

Siglec-9,SIGLEC9,CDw329,CD329

Source

Human Siglec-9, Fc Tag(SI9-H5256) is expressed from human 293 cells (HEK293). It contains AA Gln 18 - Gly 348 (Accession # Q9Y336-1). Predicted N-terminus: Gln 18

Molecular Characterization

Siglec-9(Gln 18 - Gly 348) Q9Y336-1	Fc(Pro 100 - Lys 330) P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 62.5 kDa. The protein migrates as 80-90 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.

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

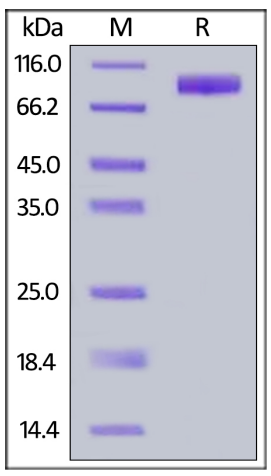
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

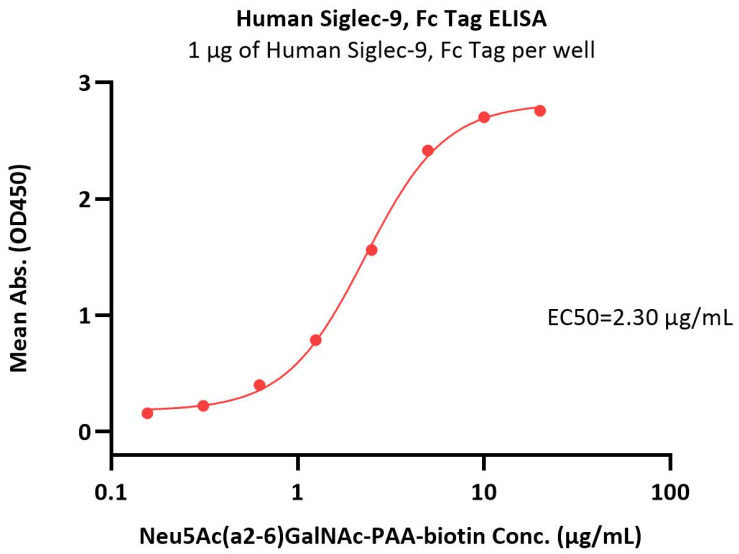
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



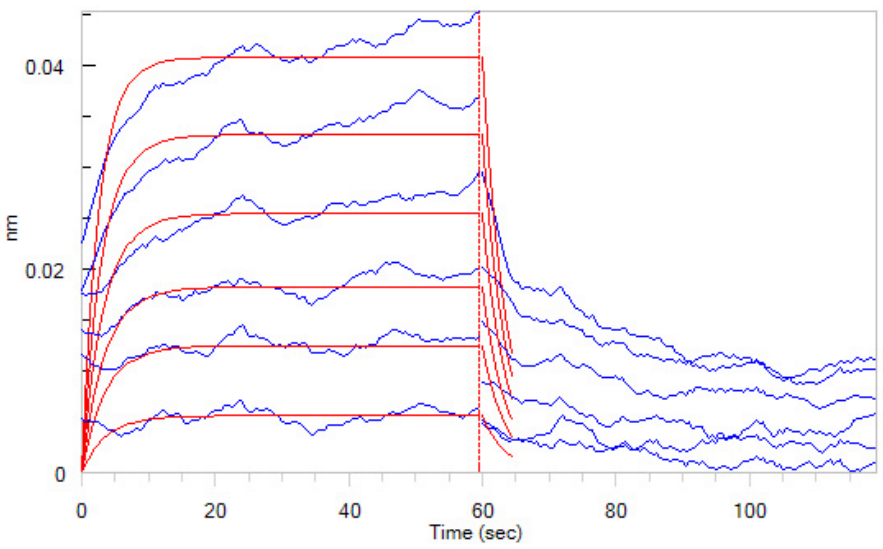
Human Siglec-9, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Human Siglec-9, Fc Tag (Cat. No. SI9-H5256) at 10 μg/mL (100 μL/well) on Diamond Protein A Protein, His Tag precoated (0.5 μg/well) plate, can bind Neu5Ac(a2-6)GalNAc-PAA-biotin with a linear range of 0.156-2.5 μg/mL (QC tested).

Bioactivity-BLI



Loaded Human Siglec-9, Fc Tag (Cat. No. SI9-H5256) on ProteinA Biosensor, can bind Neu5Ac(a2-6)GalNAc-PAA-biotin with an affinity constant of 0.85 μM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

siglec-9 (HGMW-approved symbol SIGLEC9) a member of the sialic acid-binding Ig-like lectin (Siglec) family, which belongs to the immunoglobulin superfamily (IgSF). SIGLEC9 shows a high degree of homology to many members of the siglec family, including siglec-7 (80%), siglec-8 (72%), siglec-5 (65%), and CD33 (64%). This high degree of homology is also conserved in the extracellular Ig-like domains. They are characterized by an N-terminal Ig-like V-type domain which mediates sialic acid binding, followed by varying numbers of Ig-like C2-type domains。Siglec-9 with a hydrophobic signal peptide, an N-terminal Ig-likeV-type domain, two Ig-like C2-type domains, a transmembrane region and a cytoplasmic tail.