

**Synonym**

Siglec-9, SIGLEC9, CDw329, CD329

**Source**

Human Siglec-9, His Tag(SI9-H52H4) 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	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 37.9 kDa. The protein migrates as 53-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 25 mM MES, 150 mM NaCl, pH5.5 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.*

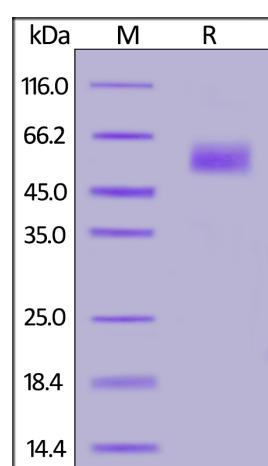
**Storage**

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**

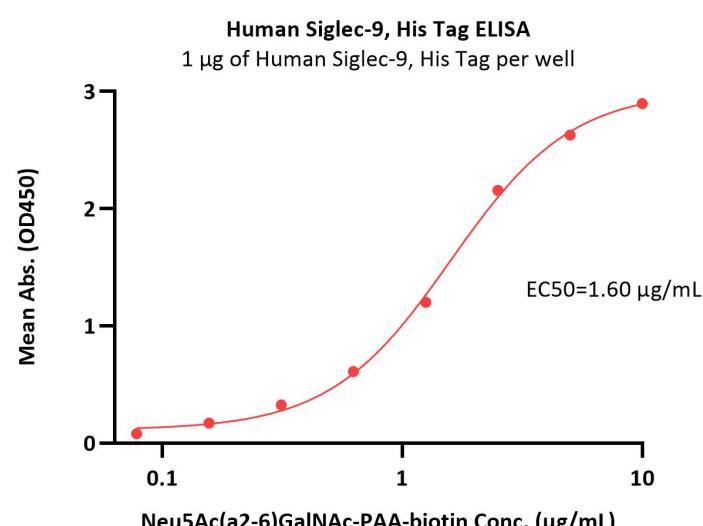
Human Siglec-9, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

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Immobilized Human Siglec-9, His Tag (Cat. No. SI9-H52H4) at 10  $\mu$ g/mL (100  $\mu$ L/well) on Nickel Coated plate, can bind Neu5Ac(a2-6)GalNAc-PAA-biotin with a linear range of 0.078-2.5  $\mu$ g/mL (QC 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.

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