



### Synonym

Siglec-1,CD169,SIGLEC1,SN

### Source

Human Siglec-1, His Tag(SG1-H52H3) is expressed from human 293 cells (HEK293). It contains AA Ser 20 - Gln 1641 (Accession # [Q9BZZ2-1](#)).

Predicted N-terminus: Ser 20

### Molecular Characterization

Siglec-1(Ser 20 - Gln 1641) Q9BZZ2-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 175.1 kDa. The protein migrates as 200-220 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

>95% as determined by SDS-PAGE.

### Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in MES, 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

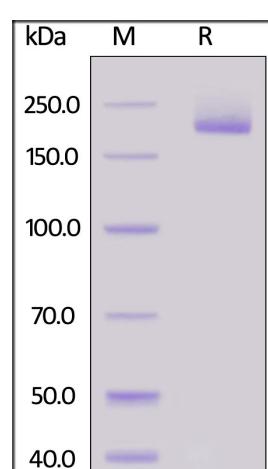
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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



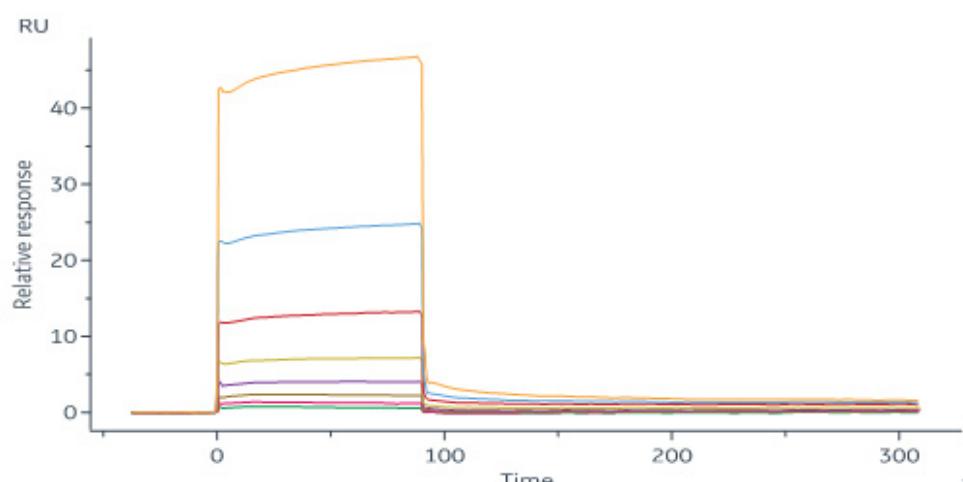
Human Siglec-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

### Bioactivity-SPR

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Human Siglec-1, His Tag (Cat. No. SG1-H52H3) immobilized on CM5 Chip can bind Human CD43, His Tag (Cat. No. CD3-H52H9) with an affinity constant of 76.1  $\mu$ M as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Background

Alternate names for sialoadhesin include siglec-1 and CD169 (cluster of differentiation 169). Since sialoadhesin binds sialic acids with its N-terminal IgV-domain, it is also a member of the SIGLEC family. It is defined as an I-type lectin, since it contains 17 immunoglobulin (Ig) domains (one variable domain and 16 constant domains), and thus also belongs to the immunoglobulin superfamily (IgSF). Since sialoadhesin binds sialic acids with its N-terminal IgV-domain, it is also a member of the SIGLEC family. Acts as an endocytic receptor mediating clathrin dependent endocytosis. Macrophage-restricted adhesion molecule that mediates sialic-acid dependent binding to lymphocytes, including granulocytes, monocytes, natural killer cells, B-cells and CD8 T-cells. Preferentially binds to alpha-2,3-linked sialic acid. Binds to SPN/CD43 on T-cells.

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