



Synonym

SIGLEC10, MGC126774, PRO940, Siglec10, SLG2

Source

Biotinylated Cynomolgus Siglec-10 Protein, His,Avitag(SI0-C82E5) is expressed from human 293 cells (HEK293). It contains AA Thr 17 - Ala 549 (Accession # [XP_005590164.1](#)).

Predicted N-terminus: Thr 17

Molecular Characterization

| | | |
|-----------------------------|----------|-----|
| Siglec-10(Thr 17 - Ala 549) | Poly-his | Avi |
| XP_005590164.1 | | |

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 62.0 kDa. The protein migrates as 80-90 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

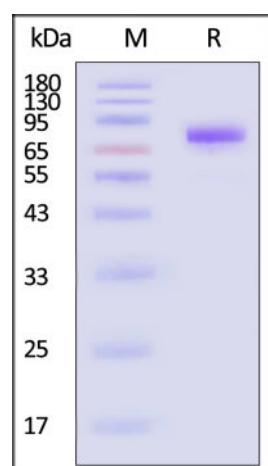
Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

SDS-PAGE



Biotinylated Cynomolgus Siglec-10 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

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Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM MES, 150 mM NaCl, 0.5 M Arginine, pH5.0 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

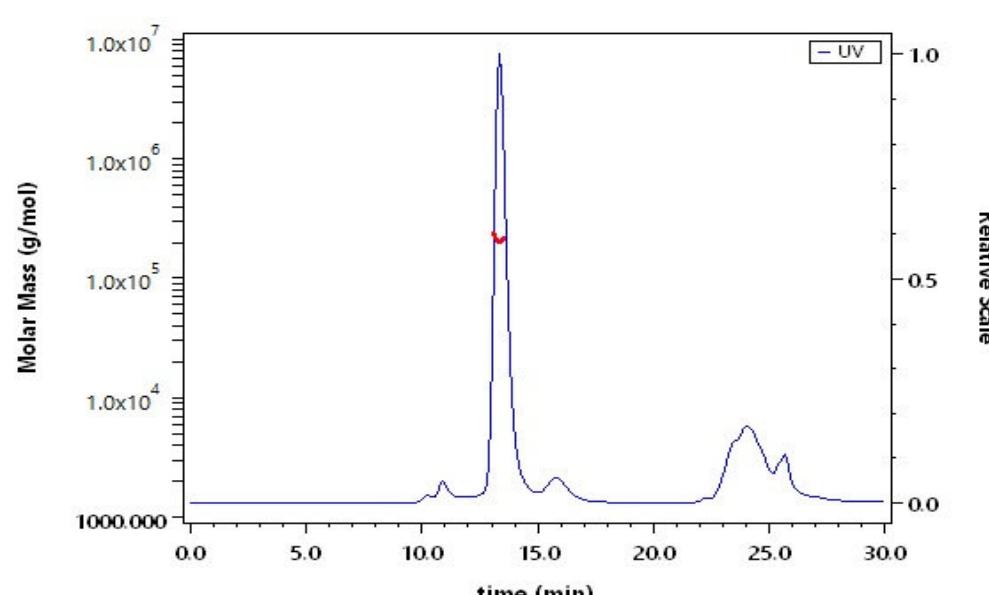
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

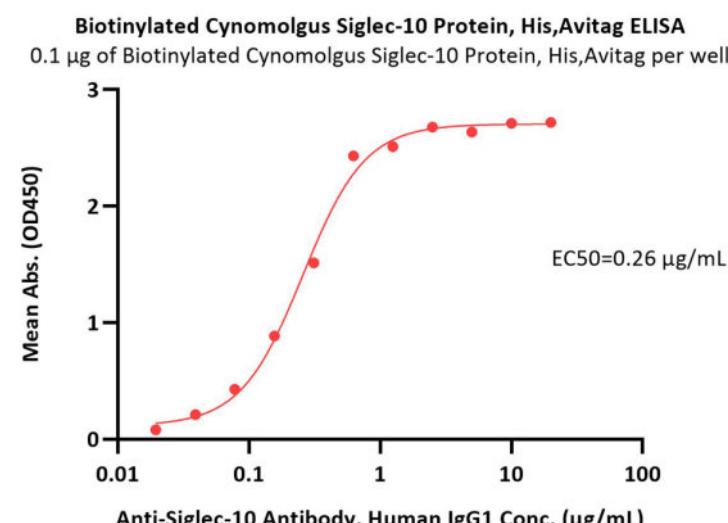
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SEC-MALS



The purity of Biotinylated Cynomolgus Siglec-10 Protein, His,Avitag (Cat. No. SI0-C82E5) is more than 85% and the molecular weight of this protein is around 185-215 kDa verified by SEC-MALS.

[Report](#)



Immobilized Biotinylated Cynomolgus Siglec-10 Protein, His,Avitag (Cat. No. SI0-C82E5) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-Siglec-10 Antibody, Human IgG1 with a linear range of 0.02-0.625 µg/mL (QC tested).

Background

The siglecs (sialic acid-binding Ig-like lectins) are a distinct subset of the Ig superfamily with adhesion-molecule-like structure. We describe here a novel member of the siglec protein family that shares a similar structure including five Ig-like domains, a transmembrane domain, and a cytoplasmic tail containing two ITIM-signaling motifs. Siglec-10 was identified through database mining of an asthmatic eosinophil EST library. The Siglec-10-VAP-1 interaction seems to mediate lymphocyte adhesion to endothelium and has the potential to modify the inflammatory microenvironment via the enzymatic end products.

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