

Synonym

SIGLEC10,MGC126774,PRO940,Siglec10,SLG2

Source

Human Siglec-10, His Tag(SI0-H52H9) is expressed from human 293 cells (HEK293). It contains AA Met 17 - Thr 546 (Accession # [Q96LC7-1](#)).

Predicted N-terminus: Met 17

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 60.1 kDa. The protein migrates as 65-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a dimer.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 25 mM MES, 150 mM NaCl, Arginine, 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

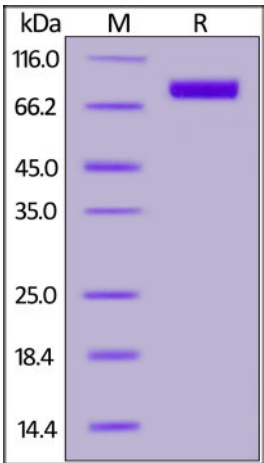
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

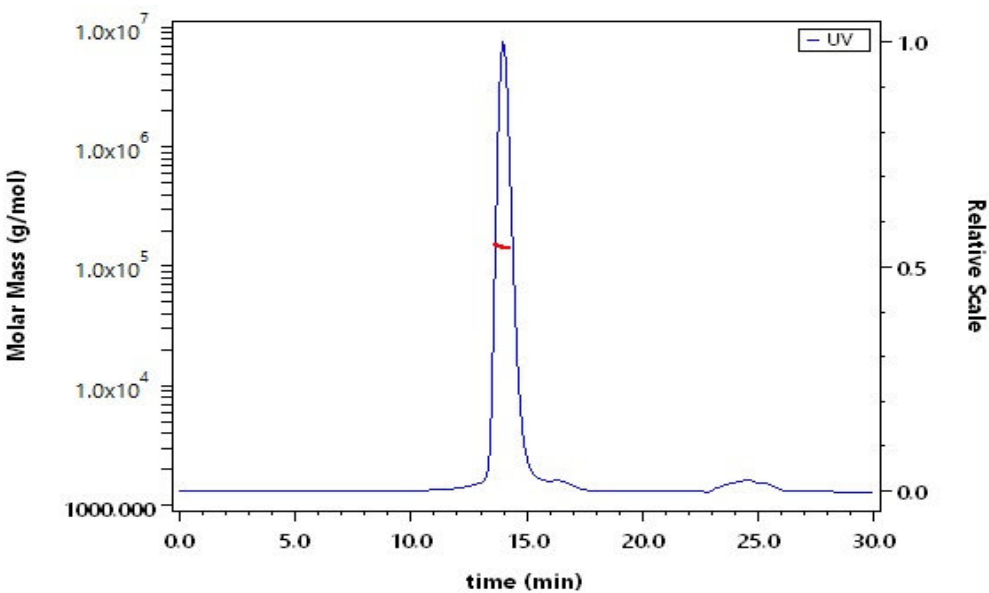
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Siglec-10, 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%.

SEC-MALS

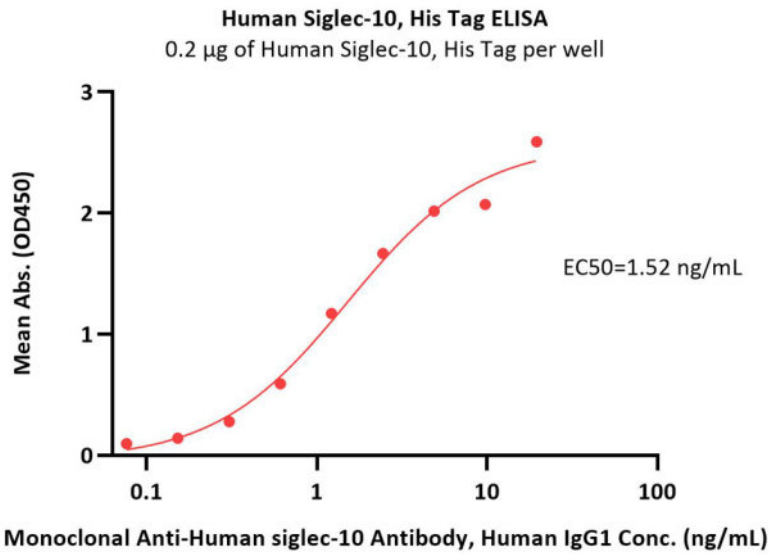


The purity of Human Siglec-10, His Tag (Cat. No. SI0-H52H9) is more than 90% and the molecular weight of this protein is around 132-160 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA





Immobilized Human Siglec-10, His Tag (Cat. No. SI0-H52H9) at 2 µg/mL (100 µL/well) can bind Monoclonal Anti-Human siglec-10 Antibody, Human IgG1 with a linear range of 0.08-2 ng/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.

