

Human Siglec-10 Protein

Cat. No. SIG-HM210

Description

Source	Recombinant Human Siglec-10 Protein is expressed from Expi293 with His tag at the C-terminal. It contains Met17-Thr546.
Accession	Q96LC7-1
Molecular Weight	The protein has a predicted MW of 59.2 kDa. Due to glycosylation, the protein migrates to 70-79 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

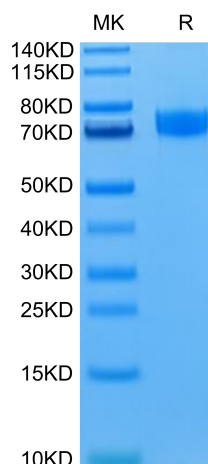
Formulation	Lyophilized from 0.22 μm filtered solution in 20mM PB, 150mM NaCl, 25mM L-Arginine (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

Background

Siglec-10 is a ligand for CD52, the target of the therapeutic monoclonal antibody Alemtuzumab. It is also reported to bind to Vascular adhesion protein 1 (VAP-1) and to the co-stimulatory molecule CD24 also known as HSA (Heat-stable antigen). Siglecs (sialic acid binding Ig-like lectins) are I-type lectins that belong to the immunoglobulin superfamily. They are characterized by an N-terminal Ig-like V-type domain which mediates sialic acid binding, followed by a varying number of Ig-like C2-type domains. Siglecs 5-11 constitute the CD33/Siglec-3 related group, and are differentially expressed in the hematopoietic system.

Assay Data

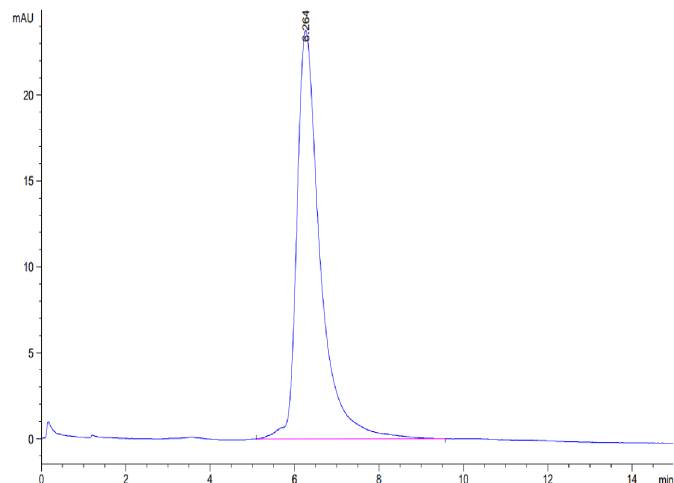
Tris-Bis PAGE



Human Siglec-10 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

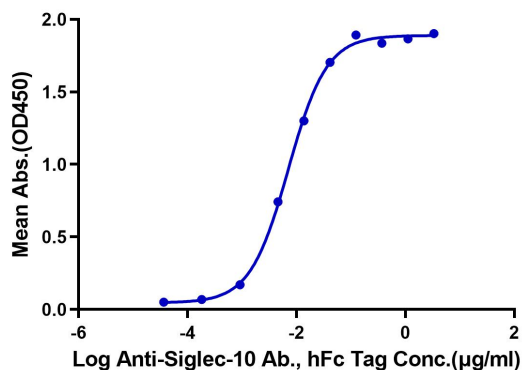
Assay Data



The purity of Human Siglec-10 is greater than 95% as determined by SEC-HPLC.

ELISA Data

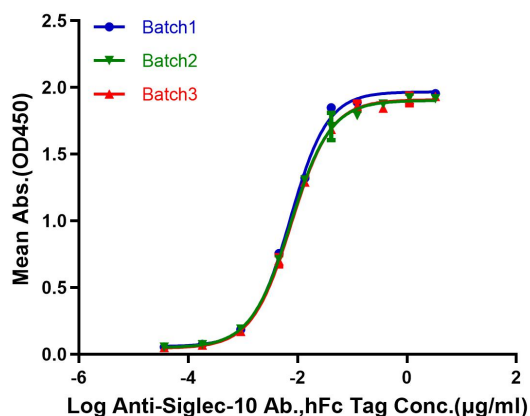
Human Siglec-10, His Tag ELISA
0.05µg Siglec-10, His Tag Per Well



Immobilized Human Siglec-10, His Tag at 0.5µg/ml (100µl/Well). Dose response curve for Anti-Siglec-10 Ab., hFc Tag with the EC50 of 7.4ng/ml determined by ELISA.

Batch to Batch Consistency

Human Siglec-10, His Tag ELISA
0.05µg Siglec-10, His Tag Per Well



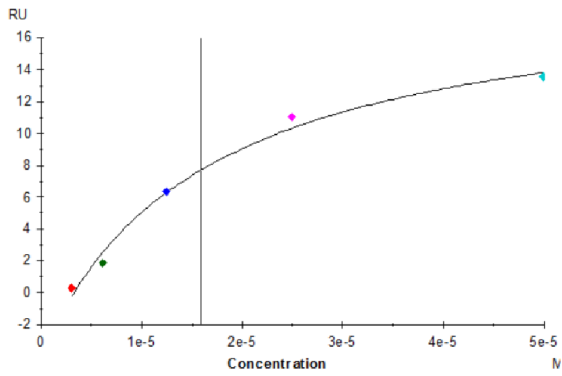
Immobilized Human Siglec-10, His Tag at 0.5µg/ml (100µl/Well). Dose response curve for Anti-Siglec-10 Ab., hFc Tag with the EC50 of 7.3/7.7/7.4ng/ml determined by ELISA.

SPR Data

Human Siglec-10 Protein

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Assay Data



Human Siglec-10, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human CD52, mFc Tag with an affinity constant of 15.9 μ M as determined in SPR assay (Biacore T200).