

Biotinylated Recombinant Human Siglec-10 Protein

Catalog No.: RP02499B

Sequence Information

Species	Gene ID
Human	89790
Swiss Prot	Tags
Q96LC7	C-hFc&Avi

Synonyms

SLG2, PRO940, SIGLEC-10, SIGLEC10

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW/Observed MW

85.8 kDa 95-110 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-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.

Basic Information

Description

Biotinylated Recombinant Human Siglec-10 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Met17-Thr546) of Human Siglec-10 fused with a hFc and Avi tag at the C-terminal.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

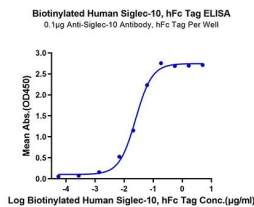
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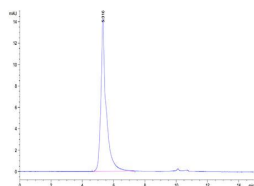
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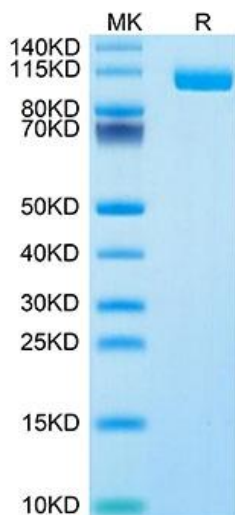
Validation Data



Immobilized Anti-Siglec-10 Antibody, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Siglec-10, hFc Tag with the EC₅₀ of 25ng/ml determined by ELISA.



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



Biotinylated Recombinant Human Siglec-10 Protein was determined by Tris-Bis PAGE under reducing conditions.