

## Siglec-10 Protein, Human, Recombinant (hFc & Avi)

### General Information

Synonyms:	PRO940;SLG2;SIGLEC10;MGC126774
Protein Construction:	Met17-Thr546
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q96LC7-1
Molecular Weight:	85.8 kDa (predicted). Due to glycosylation, the protein migrates to 95-110 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Human Siglec-10, hFc Tag at 2 $\mu$ g/ml (100 $\mu$ l/Well) on the plate. Dose response curve for Biotinylated Anti-Siglec-10 Antibody, hFc Tag with the EC50 of 14.0ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

### Reference

Barkal AA, et al. CD24 signalling through macrophage Siglec-10 is a target for cancer immunotherapy. Nature. 2019 Jul 3doi: 10.1038/s41586-019-1456-0.

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