

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

### General Information

Synonyms:	PRO940;SLG2;Sialic acid binding Ig-like lectin 10;SIGLEC-10;MGC126774
Protein Construction:	Met17-Thr546
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q96LC7
Molecular Weight:	~85.9 kDa (Reducing conditions)

### QC Testing

Biological Activity:	Immobilized CD24-His (CD4-H52H3-100 µg) at 5.0 µg/ml (100 µl/well) can bind Siglec-10, hFc, Human.
Purity:	> 90% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as a solution in PBS, pH 7.0-7.2.

### Preparation and Storage

#### Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at -20°C or below. Please avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Siglec-10 is immune system-restricted and highly expressed in peripheral blood leukocytes. Siglec-10 preferably binds to  $\alpha$ -2,3- or  $\alpha$ -2,6-linked sialic acid (similarity). Siglec10 is involved in the negative regulation of B cell antigen receptor signal transduction. The inhibition of B cell activation depends on PTPN6/SHP-1 (by similarity). The binding of Siglec10 to CD24 may be involved in the selective suppression of the immune response (by similarity) to risk-related molecular patterns (DAMPs) (such as HMGB1, HSP70 and HSP90). The combination of Siglec10 and CD24 may regulate the immune response of natural killer (NK) cells. Play a role in controlling autoimmunity (by similarity). In the process of initiating an adaptive immune response by CD8- $\alpha$ + dendritic cells, cross-presentation is inhibited by weakening the formation of MHC class I peptide complexes. The function seems to imply the recruitment of PTPN6/SHP-1, which dephosphorylates NCF1 of the NADPH oxidase complex, thereby promoting phagosome acidification (by similarity).

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