# Recombinant Human Siglec-10 (C-Fc)

Catalog Number: PKSH033913



Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Synonyms SIGLEC10;MGC126774;PRO940;Siglec10;SLG2;sialic acid-binding Ig-like lectin

10;Siglec-10;siglec-like gene 2;Siglec-like protein 2;SLG2sialic acid binding Ig-like

lectin 10 Ig-like lectin 7

Species Human

Expression HostHEK293 CellsSequenceMet17-Thr546AccessionQ96LC7Calculated Molecular Weight85.1 kDaObserved molecular weight110-120 kDa

Bioactivity Immobilized Anti-Human Siglec10 mAb at 2μg/ml (100 μl/well) can bind Human

Siglec-10-Fc. The ED50 of Human Siglec-10-Fc is 9.18 ng/ml.

## **Properties**

Tag

**Purity** > 95 % as determined by reducing SDS-PAGE.

C-Fc

**Endotoxin** < 1.0 EU per µg of the protein as determined by the LAL method.

**Storage** Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.
 Formulation Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 6% Sucrose, 4%

Mannitol, 50mM NaCl, 0.05% Tween 80, pH 8.0.

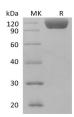
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 95 % as determined by reducing SDS-PAGE.

## **Background**

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

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the hematopoietic system. Siglec-G is the apparent ortholog of human Siglec-10. 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. Siglec-10 binds sialated proteins and lipids in alpha 2,3 or alpha 2,6 linkage and shows a preference for GT1b gangliosides. This binding can be modulated by cis interactions of Siglec-10 with sialated molecules expressed on the same cell. When tyrosine phosphorylated, the cytoplasmic ITIMs interact with phosphatases SHP-1 and SHP-2 to propagate inhibitory signals. 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.

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