Data Sheet (Cat.No.TMPK-00846)

TargetMol

Siglec-3/CD33 Protein, Human, Recombinant (aa 18-259, hFc)

General Information

Synonyms:	CD33;CD33 molecule;gp67;Siglec3;FLJ00391;p67;Siglec-3
Protein Construction:	Asp18-His259
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P20138-1
Molecular Weight:	53.6 kDa (predicted). Due to glycosylation, the protein migrates to 68-80 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human Siglec-3, hFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-Siglec-3 Antibody, hFc Tag with the EC50 of 21.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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 μg/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

Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state.They are sialoadhesin/CD169/Siglec-1, CD22/Siglec-2, CD33/Siglec-3, Myelin-Associated Glycoprotein (MAG/Siglec-4a) and Siglecs 5 to 11. To date, no Siglec has been shown to recognized any cell surface ligand other than sialic acids, suggesting that interactions with glycans containing this

carbohydrate are important in mediating the biological functions of Siglecs.

Reference

Walter RB, et al. Acute myeloid leukemia stem cells and CD33-targeted immunotherapy[J]. Blood, 2012, 119(26): 6198-6208.

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