Data Sheet (Cat.No.TMPK-00843)

TargetMol

Siglec-3/CD33 Protein, Human, Recombinant (His & Avi), FITC-Labeled

General Information

Synonyms:	CD33;CD33 molecule;gp67;Siglec-3;FLJ00391;p67;Siglec3
Protein Construction:	Asp18-His259
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P20138-1
Molecular Weight:	29.6 kDa (predicted). Due to glycosylation, the protein migrates to 48-58 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 10 mM NaH_2PO_4, 2 mM EDTA, 500 mM NaCl (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue 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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