

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

General Information

Synonyms:	p67;CD33 molecule;FLJ00391;Siglec3;Siglec-3;gp67;CD33
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 52-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human Siglec-3, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-Siglec-3 Antibody, hFc Tag with the EC50 of 3.1ng/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:	Supplied as 0.22 µm filtered solution in 20 mM PB, 500 mM NaCl (pH 8.0).

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 recognize 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. Blood, 2012, 119(26): 6198-6208.

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