

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

General Information

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| Synonyms: | Siglec3;p67;FLJ00391;Siglec-3;gp67;CD33;CD33 molecule |
| 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

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| Biological Activity: | Immobilized Biotinylated Human Siglec-3, His Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-Siglec-3 Antibody, hFc Tag with the EC50 of 4.4ng/ml determined by ELISA. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 90% 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 50m MES, 500 mM NaCl, 200 mM L-arginine (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 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[J]. Blood, 2012, 119(26): 6198-6208.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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