Data Sheet (Cat.No.TMPK-00352)

TargetMol

Siglec-4a/MAG Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms: S-MAG;MAG;GMA;Siglec-4a;Siglec4a

Protein Construction: Gly20-Pro516

Species: Human

Expression Host: HEK293 Cells

Accession: P20916

Molecular Weight: 57.6 kDa (predicted). Due to glycosylation, the protein migrates to 78-85 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity: Immobilized Anti-Siglec-4a Antibody, hFc Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human Siglec-4a, His Tag with the EC50 of 24.4ng/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

Siglec-4a, also known as Myelin-Associated Glycoprotein (MAG), is a type I transmembrane glycoprotein belonging to the Siglec family, a subgroup of the Ig superfamily. Adhesion molecule that mediates interactions between myelinating cells and neurons by binding to neuronal sialic acid-containing gangliosides and to the glycoproteins RTN4R and RTN4RL2 (By similarity).

Reference

Macauley M S, et al. Siglec-mediated regulation of immune cell function in disease[J]. Nature Reviews Immunology, 2014, 14(10):653-666.

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