

Human Siglec-4a/MAG Protein

Cat. No. SIG-HM24A

Description

Source	Recombinant Human Siglec-4a/MAG Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gly20-Pro516.
Accession	P20916
Molecular Weight	The protein has a predicted MW of 81.4 kDa. Due to glycosylation, the protein migrates to 100-115 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

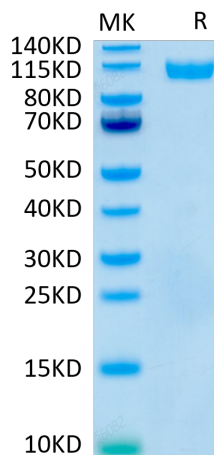
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

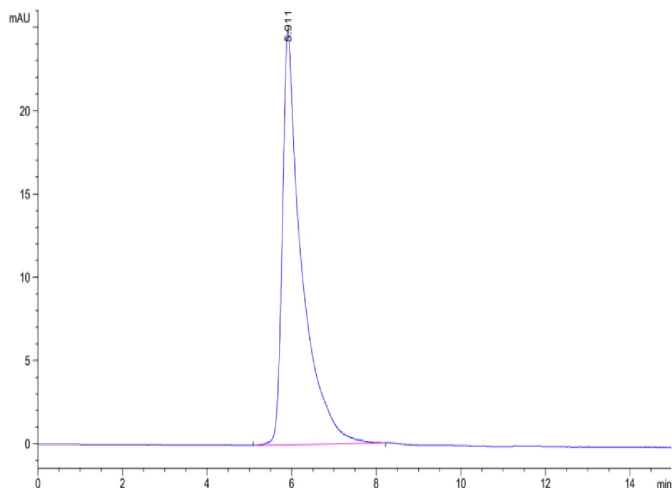
Tris-Bis PAGE



Human Siglec-4a on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

SEC-HPLC

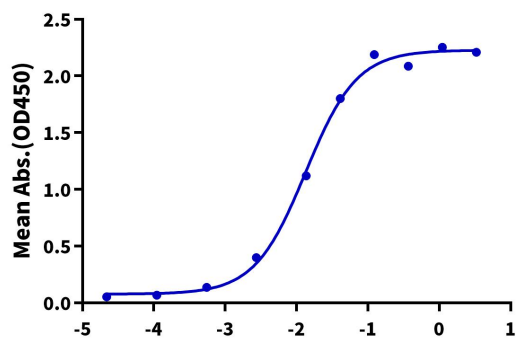
Assay Data



The purity of Human Siglec-4a is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Siglec-4a, hFc Tag ELISA
0.05µg Human Siglec-4a, hFc Tag Per Well



Immobilized Human Siglec-4a, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-Siglec-4a Antibody, hFc Tag with the EC50 of 13.4ng/ml determined by ELISA.