

Human Siglec-4a/MAG Protein

Cat. No. MAG-HM101

Description

Source	Recombinant Human Siglec-4a/MAG Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Gly20-Pro516.
Accession	P20916
Molecular Weight	The protein has a predicted MW of 55.8 kDa. Due to glycosylation, the protein migrates to 75-82 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

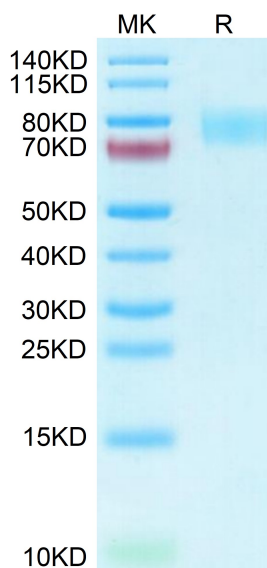
Formulation	Lyophilized from 0.22 μm filtered solution in PBS, 100mM L-arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months 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

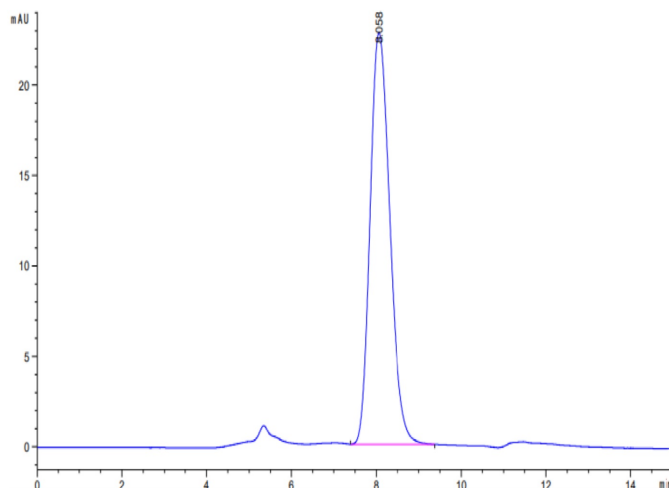
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

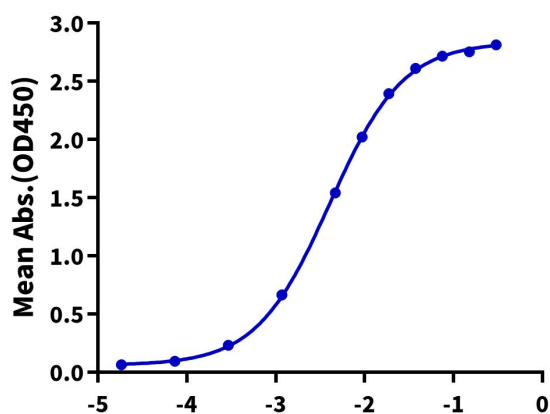


The purity of Human Siglec-4a is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human Siglec-4a, His Tag ELISA

0.1 μg Human Siglec-4a, His Tag Per Well



Immobilized Human Siglec-4a, His Tag at $1 \mu\text{g}/\text{ml}$ ($100 \mu\text{l}/\text{well}$) on the plate. Dose response curve for Anti-Siglec-4a Antibody, hFc Tag with the EC_{50} of $4.0 \text{ ng}/\text{ml}$ determined by ELISA.