Biotinylated Human MOG Protein, His,Avitag™ (MALS verified)

Catalog # MOG-H82E5

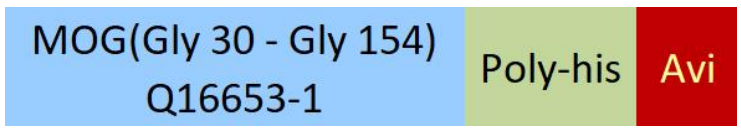
Synonym

MOG,BTN6,BTNL11,MOGIG2,NRCLP7,Myelin oligodendrocyte glycoprotein

Source

Biotinylated Human MOG Protein, His,Avitag(MOG-H82E5) is expressed from human 293 cells (HEK293). It contains AA Gly 30 - Gly 154 (Accession # Q16653-1).
Predicted N-terminus: Gly 30

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 17.9 kDa. The protein migrates as 23-26 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

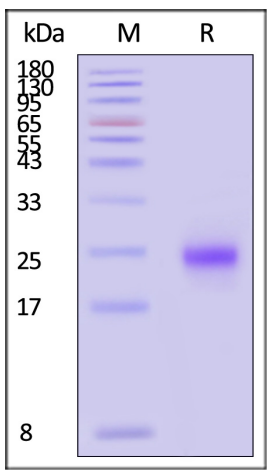
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

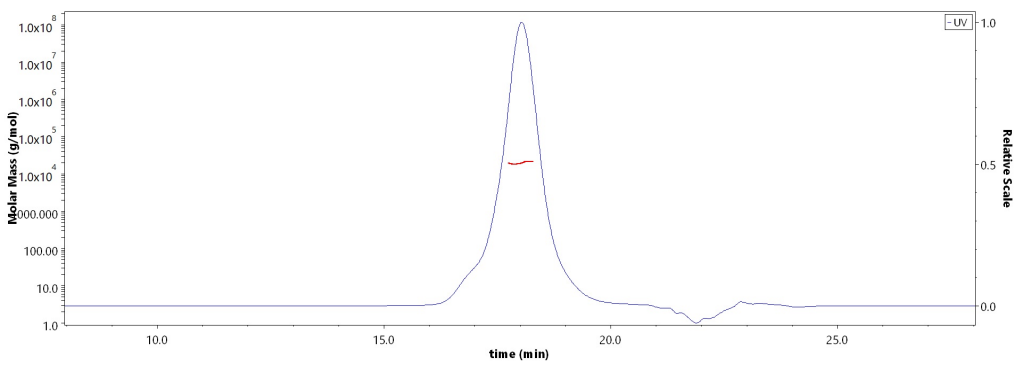
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human MOG Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS



The purity of Biotinylated Human MOG Protein, His,Avitag (Cat. No. MOG-H82E5) is more than 90% and the molecular weight of this protein is around 17-25 kDa verified by SEC-MALS.
Report

Background

Biotinylated Human MOG Protein, His,Avitag™ (MALS verified)

Catalog # MOG-H82E5

Myelin oligodendrocyte glycoprotein (MOG), is a single-pass transmembrane glycoprotein of the immunoglobulin (Ig) superfamily. MOG is a myelin protein exclusively expressed in the CNS at the outermost surface of myelin sheaths and oligodendrocyte membranes. This makes MOG a potential target of cellular and humoral immune responses in inflammatory demyelinating diseases. Due to its late postnatal developmental expression, MOG is an important marker for oligodendrocyte maturation.