

**Synonym**

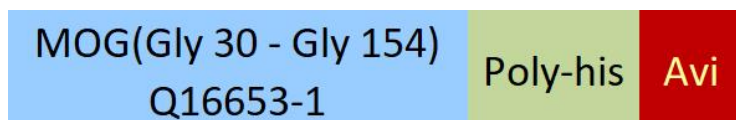
MOG,BTN6,BTNL11,MOGIG2,NRCLP7,Myelin oligodendrocyte glycoprotein

**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.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**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**

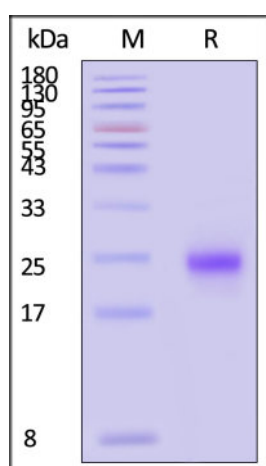
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

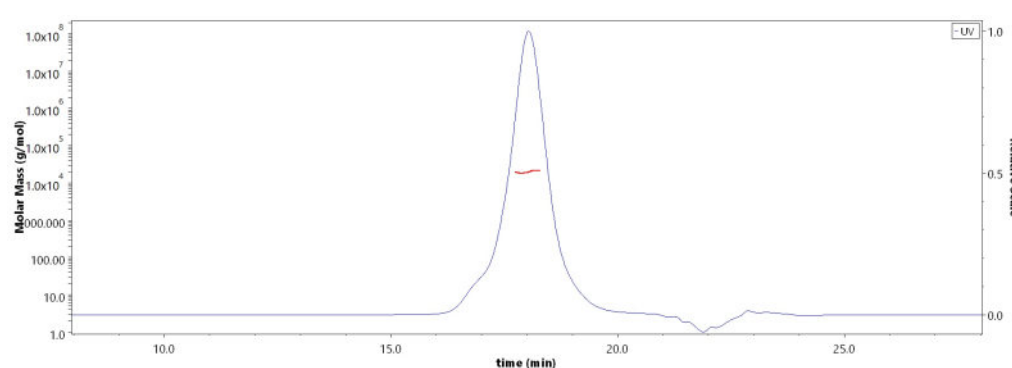
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**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**

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.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.