



## Synonym

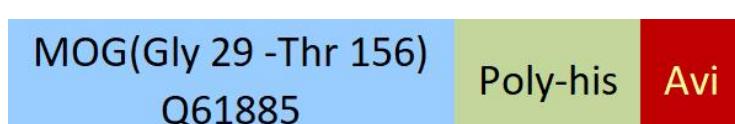
MOG, BTN6, BTNL11, MOGIG2, NRCLP7, Myelin oligodendrocyte glycoprotein

## Source

Biotinylated Mouse MOG Protein, His,Avitag(MOG-M82E7) is expressed from human 293 cells (HEK293). It contains AA Gly 29 -Thr 156 (Accession # [Q61885](#)).

Predicted N-terminus: Gly 29

## 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 18.2 kDa. The protein migrates as 21-25 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

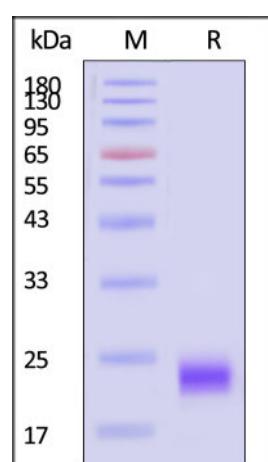
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

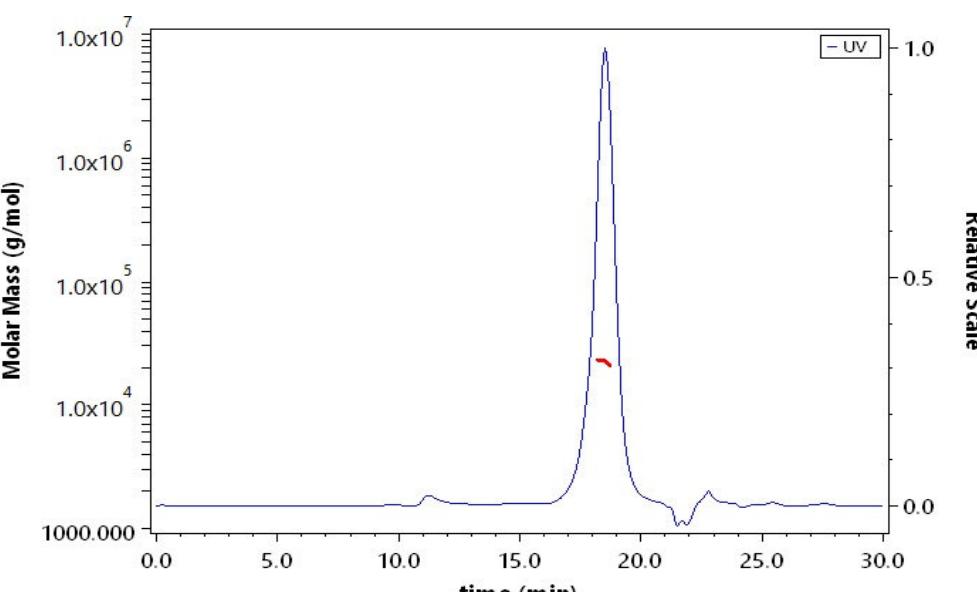
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Biotinylated Mouse 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 Mouse MOG Protein, His,Avitag (Cat. No. MOG-M82E7) is more than 90% and the molecular weight of this protein is around 18-26 kDa verified by SEC-MALS.

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## 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.

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