



## Synonym

Serum albumin,ALB,Alb

## Source

Biotinylated Mouse Serum Albumin, His,Avitag(MSA-M82E4) is expressed from human 293 cells (HEK293). It contains AA Glu 25 - Ala 608 (Accession # [P07724-1](#)).

Predicted N-terminus: Glu 25

## 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 69.5 kDa. The protein migrates as 66-80 kDa 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

>95% as determined by SDS-PAGE.

>95% 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

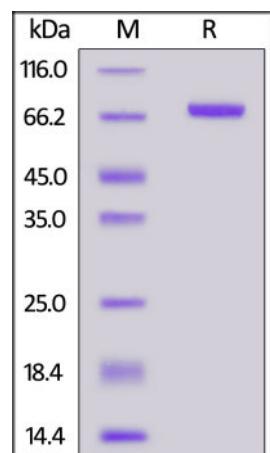
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

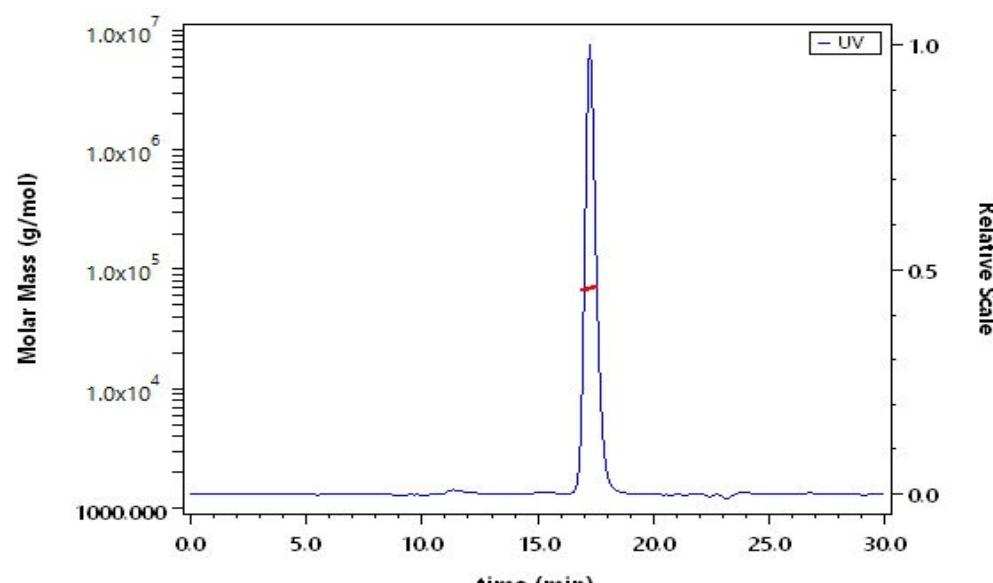
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Biotinylated Mouse Serum Albumin, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## SEC-MALS



The purity of Biotinylated Mouse Serum Albumin, His,Avitag (Cat. No. MSA-M82E4) is more than 95% and the molecular weight of this protein is around 65-75 kDa verified by SEC-MALS.

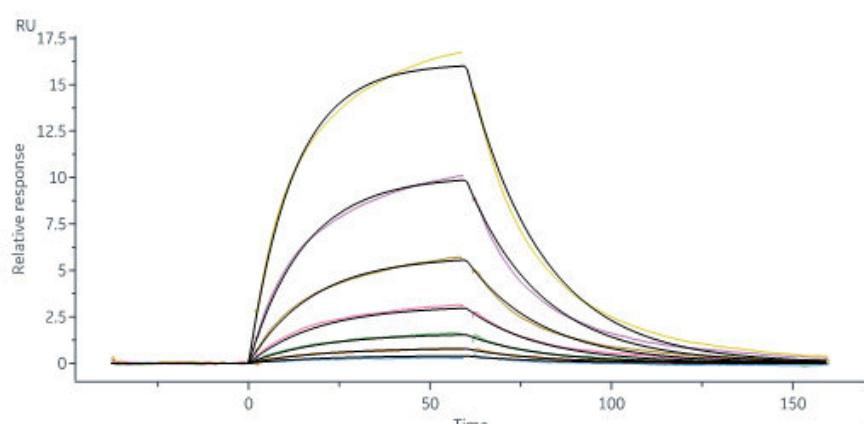
[Report](#)

## Bioactivity-SPR

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Biotinylated Mouse Serum Albumin, His,Avitag (Cat. No. MSA-M82E4) immobilized on SA Chip can bind Mouse FCGRT&B2M Heterodimer Protein, His Tag (Cat. No. FCM-M52W8) with an affinity constant of 377 nM as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

serum albumin (SA) is also known as ALB, which is the main protein of plasma and has a good binding capacity for water, Ca<sup>2+</sup>, Na<sup>+</sup>, K<sup>+</sup>, fatty acids, hormones, bilirubin and drugs. The main function of SA is the regulation of the colloidal osmotic pressure of blood. As Major zinc transporter in plasma, SA typically binds about 80% of all plasma zinc. A variant structure of albumin could lead to increased binding of zinc resulting in an asymptomatic augmentation of zinc concentration in the blood. Defects in serum albumin can cause familial dysalbuminemic hyperthyroxinemia which is a form of euthyroid hyperthyroxinemia that is due to increased affinity of serum albumin for T4. It is the most common cause of inherited euthyroid hyperthyroxinemia in Caucasian population.

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