

**Synonym**

Serum albumin, ALB, Alb

**Source**

Mouse Serum Albumin, His Tag(MSA-M52H8) is expressed from human 293 cells (HEK293). It contains AA Glu 25 - Ala 608 (Accession # [P07724-1](#)).

Predicted N-terminus: Glu 25

**Molecular Characterization**

ALB(Glu 25 - Ala 608)	P07724-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 67.8 kDa. The protein migrates as 65-75 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22  $\mu$ m 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.*

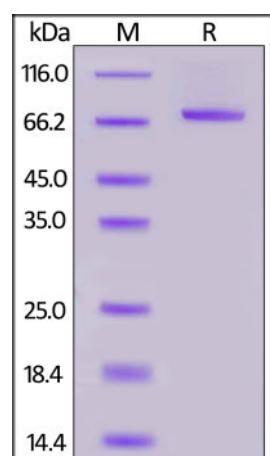
**Storage**

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

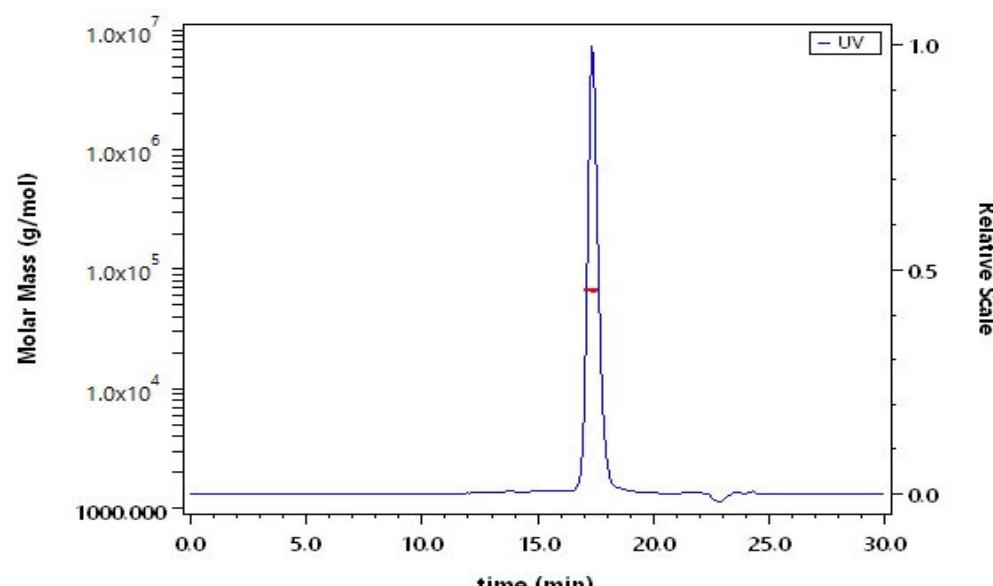
*Please avoid repeated freeze-thaw cycles.*

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**

Mouse Serum Albumin, His Tag 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 Mouse Serum Albumin, His Tag (Cat. No. MSA-M52H8) is more than 90% and the molecular weight of this protein is around 60-75 kDa verified by SEC-MALS.

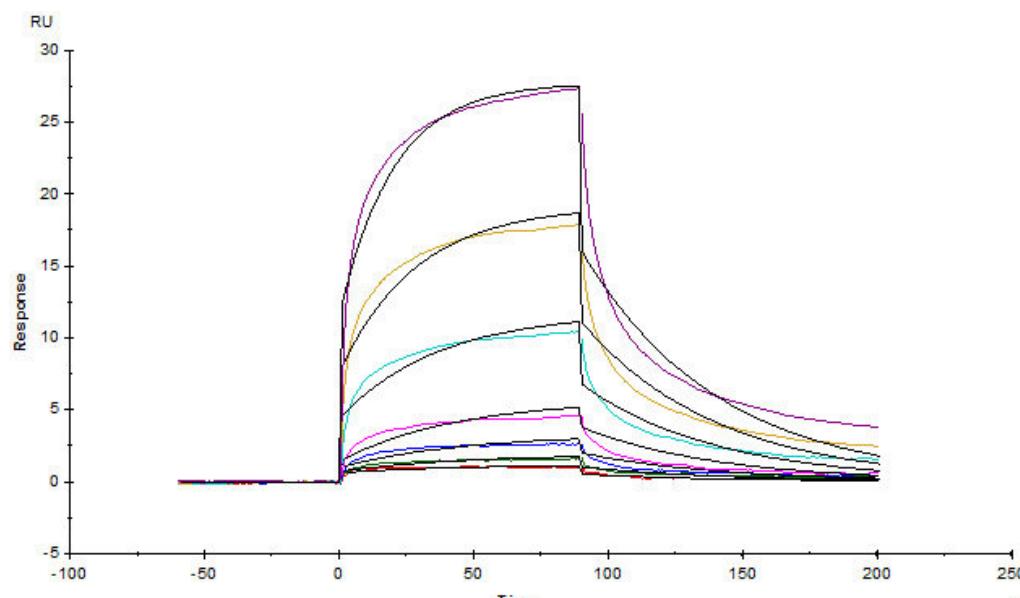
[Report](#)

**Bioactivity-SPR**

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and more!

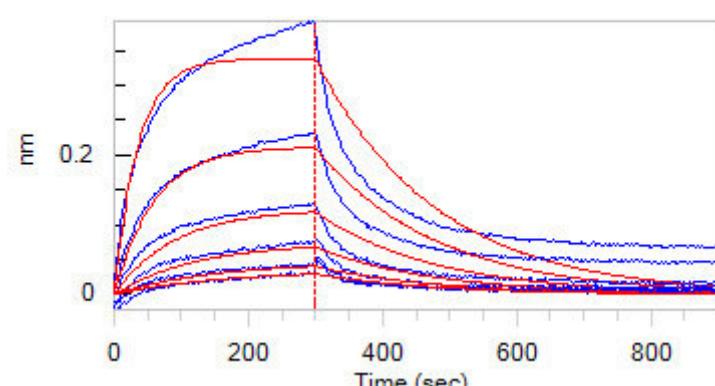


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Mouse Serum Albumin, His Tag (Cat. No. MSA-M52H8) immobilized on CM5 Chip can bind Mouse FCGRT&B2M Heterodimer Protein, His Tag (Cat. No. FCM-M52W8) with an affinity constant of  $0.165 \mu\text{M}$  as determined in a SPR assay (Biacore T200) (Routinely tested).

### Bioactivity-BLI



Loaded Biotinylated Mouse FCGRT&B2M Heterodimer Protein, His,Avitag (BLI verified)(Cat. No. FCM-M82W5) on SA Biosensor, can bind Mouse Serum Albumin, His Tag(Cat. No. MSA-M52H8) with an affinity constant of  $0.495 \mu\text{M}$  as determined in BLI assay (ForteBio Octet Red96e) (Routinely 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,  $\text{Ca}^{2+}$ ,  $\text{Na}^+$ ,  $\text{K}^+$ , 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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