

**Synonym**

Serum albumin, ALB, Alb

Source

Human Serum Albumin Protein, premium grade(SEA-H5215) is expressed from human 293 cells (HEK293). It contains AA Asp 25 - Leu 609 (Accession # [P02768-1](#)).

Predicted N-terminus: Asp 25

It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage. When ready to transition into later clinical phases, we also offer a custom GMP protein service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based therapies.

Molecular Characterization

ALB(Asp 25 - Leu 609)
P02768-1

This protein carries no "tag".

The protein has a calculated MW of 66.5 kDa. The protein migrates as 63 kDa \pm 3 kDa under reducing (R) condition, and 54 kDa \pm 3 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

EndotoxinLess than 0.01 EU per μ g by the LAL method / rFC method.**Host Cell DNA**<0.02 ng/ μ g of protein tested by qPCR.**Sterility**

Negative

Mycoplasma

Negative

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

FormulationLyophilized from 0.22 μ 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.

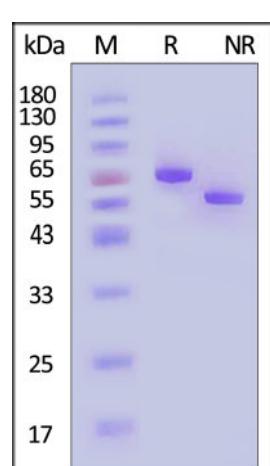
Storage

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

SDS-PAGE**SEC-MALS**

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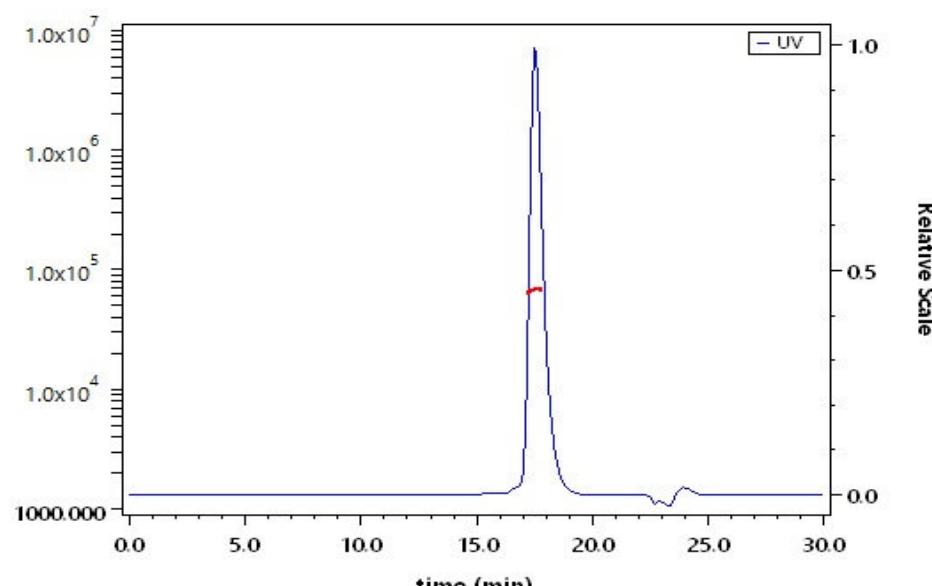
Human Serum Albumin Protein, premium grade

Catalog # SEA-H5215



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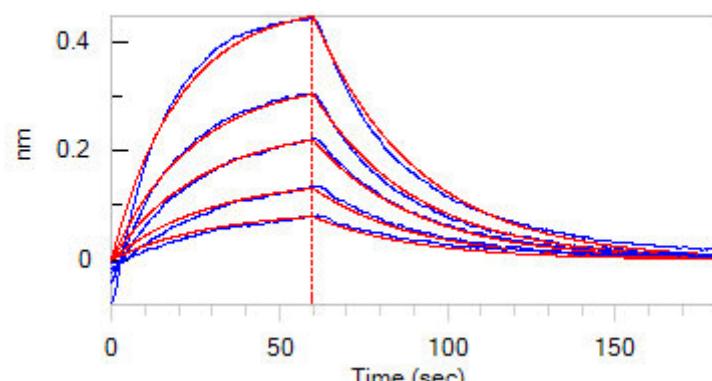
Human Serum Albumin Protein, premium grade on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Human Serum Albumin Protein, premium grade (Cat. No. SEA-H5215) is more than 95% and the molecular weight of this protein is around 60-80 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-BLI



Loaded Biotinylated Human FCGRT&B2M Heterodimer Protein, His,Avitag (Cat. No. FCM-H82W7) on SA Biosensor, can bind Human Serum Albumin Protein, premium grade (Cat. No. SEA-H5215) with an affinity constant of 1.84 μ M as determined in BLI assay (ForteBio Octet Red96e) (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,Ca²⁺,Na⁺,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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