

## Serum Albumin Protein, Human, Recombinant (His & Avi)

### General Information

Synonyms:	Serum albumin;PRO0903;Albumin;PRO1341;ALB;ANALBA;FDAH;PRO0883
Protein Construction:	Asp25-Leu609
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P02768-1
Molecular Weight:	69.4 kDa (predicted). Due to glycosylation, the protein migrates to 69-70 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Human Serum Albumin, His Tag immobilized on CM5 Chip can bind Human FcRn, His Tag with an affinity constant of 0.728 $\mu$ M as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Human serum albumin (HSA), the most prominent protein in plasma, binds different classes of ligands at multiple sites. HSA provides a depot for many compounds, affects pharmacokinetics of many drugs, holds some ligands in a strained orientation providing their metabolic modification, renders potential toxins harmless transporting them to disposal sites, accounts for most of the antioxidant capacity of human serum, and acts as a NO-carrier.

Reference

Ishima Y, Maruyama T. [Human Serum Albumin as Carrier in Drug Delivery Systems]. Yakugaku Zasshi. 2016;136(1):39-47. Japanese. doi: 10.1248/yakushi.15-00227-PMID: 26725666.

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