

## Serum Albumin Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	PRO1341;Albumin;PRO0883;FDAH;PRO0903;ALB;ANALBA;Serum albumin
Protein Construction:	Asp25-Ala608
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A2V9Z4-1
Molecular Weight:	67.1 kDa (predicted). Due to glycosylation, the protein migrates to 68-70 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Cynomolgus Serum Albumin, His Tag immobilized on CM5 Chip can bind Cynomolgus/Rhesus macaque FcRn, His Tag with an affinity constant of 0.108 $\mu$ 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

Albumins are multifunctional proteins present in the blood serum of animals. They can bind and transport a wide variety of ligands which they accommodate due to their conformational flexibility. Serum albumins are highly conserved both in amino acid sequence and three-dimensional structure. Several mammalian and avian serum albumins (SAs) are also allergens. Sensitization to one of the SAs coupled with the high degree of conservation between SAs may result in cross-reactive antibodies in allergic individuals.

Reference

Chruszcz M, et al. Serum albumins-unusual allergens. *Biochim Biophys Acta*. 2013 Dec;1830(12):5375-8doi: 10.1016/j.bbagen.2013.06.016. Epub 2013 Jun 26. PMID: 23811341; PMCID: PMC4419372.

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