

Albumin Protein, Human, Recombinant V2

General Information

Synonyms:	PRO1341;albumin;FDAH;PRO0883;PRO0903;ANALBA
Protein Construction:	Asp25-Leu609
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	P02768
Molecular Weight:	66.5 kDa (Predicted); 55-80 kDa (Reducing conditions)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ 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:

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 abundant protein in human blood plasma, is essential for maintaining osmotic pressure. It is produced in the liver, consists of a single polypeptide chain, with 585 amino acids with 17 tyrosyl residues and one tryptophan located in position 214. HSA is organized in three domains, I, II and III, each consisting of two subdomains, A and B. In the physiological states, HSA occurs in two forms - the non-modified HSA with a free thiol group of Cys-34, and the modified (oxidized) form (oHSA), also called human mercaptoalbumin (HMA) and human nonmercaptoalbumin (HNA), respectively. HMA and HNA are in equilibrium, depending on the redox state of Cys-34, and their ratio also varies depending on age and the diseased state. HSA

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functions primarily as a carrier protein for drugs, steroids, fatty acids, and thyroid hormones, and plays a role in stabilizing extracellular fluid volume.

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