



Recombinant Protein Technical Manual
Recombinant Human Serum Albumin/HSA Protein
(His Tag)
RPES4846

Product Data:

Product SKU: RPES4846

Size: 10µg

Species: Human

Expression host: P. Pichia

Uniprot: P02768

Protein Information:

Molecular Mass: 66.5 kDa

AP Molecular Mass: 55-80 kDa

Tag: C-8His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Serum Albumin; HAS; ALB

Immunogen Information:

Sequence: Asp25-Leu609

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