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rHuSA - lipid free

lipid free recombinant Human Serum Albumin from Rice Grain

Product	Cat#	Package size
rHuSA - rec. Human Serum Albumin (rec. from Rice Grain) - lipid free	**M6384.0010**	**10mg**
rHuSA - rec. Human Serum Albumin (rec. from Rice Grain) - lipid free	**M6384.0050**	**50mg**
rHuSA - rec. Human Serum Albumin (rec. from Rice Grain) - lipid free	**M6384.0100**	**100mg**

Introduction

Albumin is synthesized in the liver as preproalbumin which has an N-terminal peptide that is removed before the nascent protein is released from the rough endoplasmic reticulum. The product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted albumin. Albumin is a soluble, monomeric protein which comprises about one-half of the blood serum protein. Albumin functions primarily as a carrier protein for steroids, fatty acids, and thyroid hormones and plays a role in stabilizing extracellular fluid volume. Mutations in this gene on chromosome 4 result in various anomalous proteins. Albumin is a globular unglycosylated serum protein of molecular weight 65,000. The human albumin gene is 16,961 nucleotides long from the putative 'cap' site to the first poly (A) addition site. It is split into 15 exons which are symmetrically placed within the 3 domains that are thought to have arisen by triplication of a single primordial domain. HSA is widely used to stabilize blood volume generally from donors but the fear of contamination such as HIV & Hepatitis has enticed great interest in the recombinant form which is identical to the natural blood.

Product description

rHuSA produced in Plant (Rice Grain) is a non-glycosylated, polypeptide chain of 585 amino acids and a molecular mass of 67 kDa. The optimum concentration for recombinant Albumin to be used in cell culture ranges between 0.5gr to 2gr per liter.

Synonyms: Serum albumin, ALB, PRO0883, PRO0903, PRO1341, DKFZp779N1935, GIG20, GIG42, PRO1708, PRO2044, PRO2619, PRO2675, UNQ696, SA, HSA.

Purity: Greater than 90%, determined by SDS-PAGE. Tested to be free of lipids.

Source: Rice Grain

Physical appearance: Sterile Filtered white lyophilized powder.

Formulation: The Recombinant Albumin was lyophilized with sodium chloride. A 10% (w/v) solution when dissolved in water will contain 50mM NaCl.

Stability rHuSA although stable at +2°C to +8°C for 3 weeks, should be stored at -20°C.
Note: **Please prevent from repeated freeze-thaw cycles.**

Usage/Applications:

- Formulation of Protein Therapeutics
- Cell Storage: Cryopreservation
- Vaccine formulation and manufacturing
- Development of mammalian cell cultures
- Infertility treatments
- Coating for medical devices
- Drug delivery
- In vivo diagnostics

Advantages of this special lipid free albumin

- Reduces non-specific binding
- Improves specificity
- Consistent
- Immunoglobin Free
- Protease free
- Outperforms BSA and pHSA
- Enhances stability of antibodies and analytes

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Instructions for use:

rHuSA can be used as a media culture supplement at concentrations up to 5 grams per liter. Gradual adaptation of cell lines over several passages to a concentration of 0.5gr to 2gr per liter.

Usage

The Genaxxon rHuSA is offered for research, laboratory or further manufacturing purposes only. The product may not be used as drug, agricultural or pesticidal product, food additive or household chemical.

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