



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet Recombinant Human Serum Albumin

Catalog No.
228-10781

Source
Saccharomyces Cervisiae.

Synonyms

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

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.

Description

Recombinant Human Serum Albumin produced in yeast is a single, non-glycosylated, polypeptide chain containing 585 amino acids and having a molecular mass of 66441 Dalton.

The Human Serum Albumin is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered yellowish liquid formulation.

Formulation

Each ml contains 145mM sodium chloride, 32mM sodium octanoate and 15µg/ml tween 80.

Stability

Human Serum Albumin should be stored at temperatures below 30°C.

Do not freeze!

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Purity

Purity Greater than 99.98% as determined by both

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

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.

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