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HSA Recombinant, Plant

Human Serum Albumin Recombinant, Plant
RCP1058

Product Overview

Name	HSA Recombinant, Plant

Description

Human Serum Albumin Recombinant, Plant

Accession (Primary)	P02768

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.

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

Recombinant Albumin although stable at 4°C for 3 weeks, should be stored at -18°C. Please prevent freeze-thaw

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cycles.

Purity

Greater than 98% as determined by SDS-PAGE.

Applications

Recombinant Albumin 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.

Precautions

HSA Recombinant, Plant is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P02768)