Recombinant Human Serum Albumin
Mammalian derived
Cat no ABC2534

Source:
Mammalian Cell Line

Background:
Serum Albumin is a major protein in the blood. It is important in maintaining the colloidal osmotic pressure and transporting large organic molecules. Fear of infectious diseases as HIV & Hepatitis has enticed great interest in the recombinant form which is identical to the natural blood.

Description:
Recombinant 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. Recombinant Human HSA produced in mammals is a single, glycosylated, polypeptide chain containing 585 amino acids and having a molecular mass of 66441 Dalton. The ABC2534 is purified by proprietary chromatographic techniques.

Physical Appearance:
Sterile Filtered yellowish liquid formulation at a concentration of 271mg/ml.

Formulation:
Each ml contains 6mg sodium chloride, pH-7.

Stability:
Recombinant HSA should be stored between at temperatures below 30°C. NOTE: Do not freeze!

Purity:
Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

Dimers and aggregates:
Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
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

Endotoxin:
Less than 0.1 ng/µg (IEU/µg) of Recombinant HSA.

Usage:
This material is offered for research, laboratory or further manufacturing purposes.

Latest Publications:
   Electrophoresis 2005 Nov;26(21):4116-26
2. Interaction of colchicine with human serum albumin investigated by spectroscopic methods.
3. Binding of the bioactive compound 5,7,4'-trihydroxy-6,3',5'-trimethoxyflavone to human serum albumin.
4. Albumin binding capacity (ABiC) is reduced in commercially available human serum albumin preparations with stabilizers.
   Z Gastroenterol 2001 Jun;39 Suppl 2:24-7
5. Hydrolysis of angiotensin II receptor blocker prodrug olmesartan medoxomil by human serum albumin and identification of its catalytic active sites.

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Drug Metab Dispos 2005 Dec;33(12):1911-9
