Recombinant Human Serum Albumin (rHSA)

Cat. No. OsrHSA

Description

Human serum albumin (HSA) is the most abundant protein found in human blood plasma. It is produced in the liver. The biological functions of albumin include normalization of the colloidal osmotic blood pressure and transportation and metabolization of endogenous and exogenous molecules (e.g. fatty acids, amino acids, steroids, hormones, metals) and pharmaceutical drugs.

Advantages and applications

Recombinant human serum albumin (rHSA) is genetically engineered and derived from a rice-based expression system. It is a highly purified and completely animal-, virus-, and bacteria-free product that was developed as an alternative to plasma-derived HSA, to which it is structurally equivalent.

rHSA is plant-derived, which eliminates the risk of bacterial and viral contaminations. Additionally, the greater consistency of rHSA saves time while providing better performance. Finally, the low price of rHSA allows for a reduction in downstream product cost without sacrificing the quality. rHSA is suitable as a cell culture media supplement to promote cell growth and increase recombinant protein yield. It can also be used as an additive for reduced-serum or serum-free culture media and in the cryopreservation of cells.

rHSA is also ideal for reference applications, such as electrophoresis, when protein contaminations are not desired. It can also be used as a blocking agent in Western blots and ELISA applications.

Source

Oryza sativa (rice grain)

Purity

≥ 99% by SEC-HPLC (Ref: Figure.1)

Physical Appearance

Off-white lyophilized powder.

Formulation

Lyophilized with no additives.

Endotoxin

< 0.005EU/μg

Reconstitution

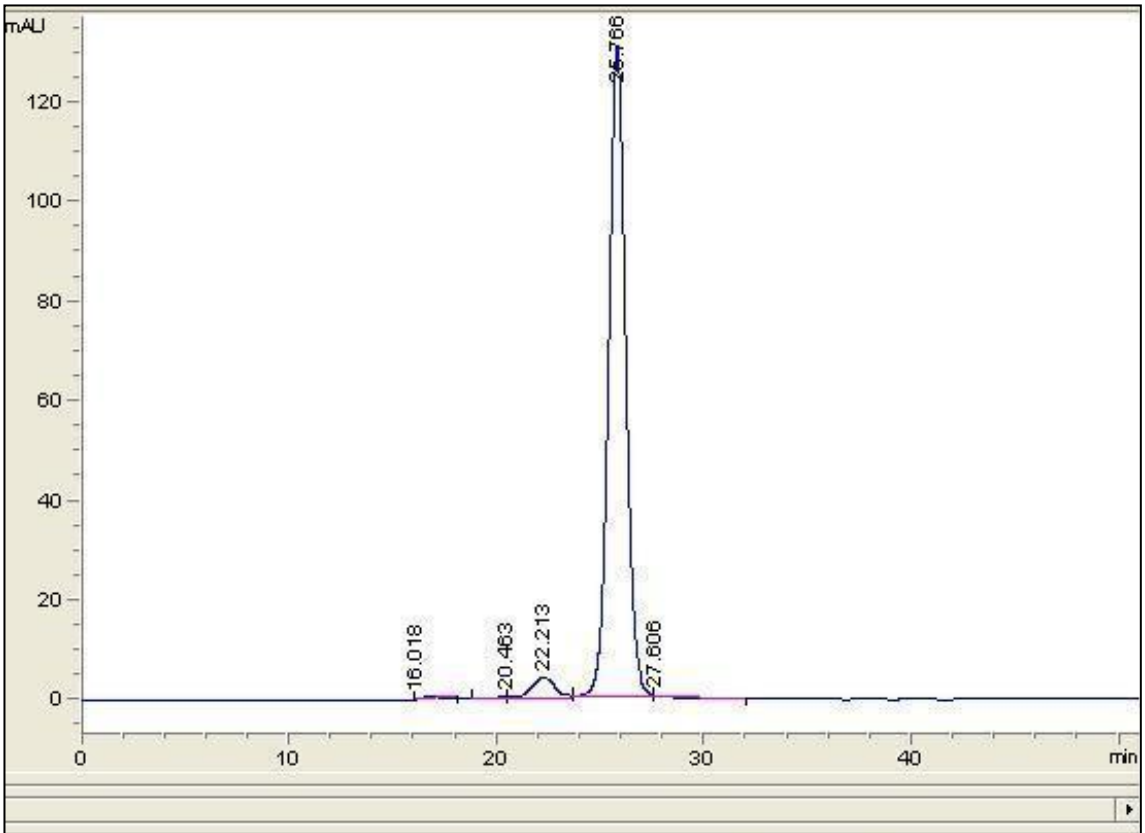
Reconstitute in sterile distilled water or saline.

Storage and Stability

Store at 2-8°C. Aqueous aliquots stored at -20°C are stable for several months. Repeated freeze-thaw of solutions is not recommended.

Usage

This product is for research use only. It is not approved for use in humans, animals, or *in vitro* diagnostic procedures.



#	RT	Area	Height	Width	Symmetry Factor	% Area	
1	16.018	32	2.8E-2	0.8685	0.326	0.411	
2	20.463	16.2	2.8E-1	0.9813	10.457	0.208	Aggregates
3	22.213	344	4.2	1.3814	0.983	4.416	Dimers
4	25.766	7369.5	130.5	0.9409	0.954	94.588	OsrHSA
5	27.606	29.4	5.9E-1	0.8249	0	0.377	

Figure 1.