

Recombinant Human HAS

Cat. No. HAS-252H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding human HSA (NP_000468.1)(Met1-Leu609, Ala215Val,natrual variant) was expressed.
Species	Human
Source	P.pastoris
ProteinLength	1-609 a.a.
Description	Human Serum Albumin is produced in the liver and constitutes the biggest part of the human blood serum protein. Serum albumin is the main protein of plasma which belongs to the ALB/AFP/VDB family. It has a good binding capacity for water, Ca²⁺, Na⁺, K⁺, fatty acids, hormones, bilirubin and drugs. Serum albumin functions as the major zinc transporter in plasma and typically binds about 80% of all plasma zinc. Besides zinc, it also transports hormones, fatty acids, and other compounds. As a negative acute-phase protein, serum albumin is lowly expressed in inflammatory states, and thus can be taken as a marker in inflammatory states. Serum albumin also can maintains oncotic pressure and prevents photodegradation of folic acid. Defects in serum albumin can cause familial dysalbuminemic hyperthyroxinemia which is a form of euthyroid hyperthyroxinemia that is due to increased affinity of serum albumin for T4. It is the most common cause of inherited euthyroid hyperthyroxinemia in Caucasian population.
Predicted N Terminal	Asp 25

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Molecular Mass	The recombinant human HSA consists of 58.5 amino acids and predicts a molecular mass of 66.5 KDa. It migrates as an approximately 58-67 KDa band in SDS-PAGE under reducing conditions.
Endotoxin	Please contact us for more information.
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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