

Recombinant Human HSA protein, His-tagged

Cat. No. HAS-369H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HAS protein (Asp25-Leu609), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	585
Description	Human serum albumin (HSA) is also known as ALB, which is the main protein of plasma and has a good binding capacity for water, Ca ²⁺ , Na ⁺ , K ⁺ , fatty acids, hormones, bilirubin and drugs. The main function of HSA is the regulation of the colloidal osmotic pressure of blood. As Major zinc transporter in plasma, HSA typically binds about 80% of all plasma zinc. A variant structure of albumin could lead to increased binding of zinc resulting in an asymptomatic augmentation of zinc concentration in the blood. 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.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 67.3 kDa. The protein migrates as 66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

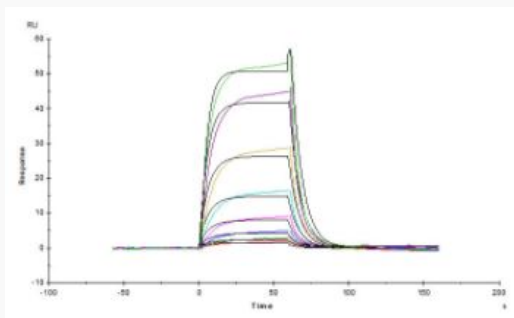
Gene Name	ALB
Official Symbol	ALB
Synonyms	HSA; PRO0883; PRO0903; PRO1341
Gene ID	213
mRNA Refseq	NM_000477.7
Protein Refseq	NP_000468.1
MIM	103600
UniProt ID	P02768

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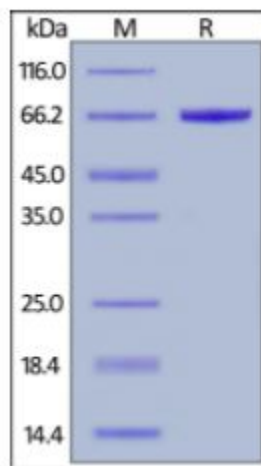
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Bioactivity-SPR of HAS-369H



Immobilized Biotinylated Human FCGRT & B2M Heterodimer Protein, Avitag, His Tag & Strep II Tag (SPR & BLI verified) on SA Chip can bind Human Serum Albumin, His Tag with an affinity constant of $1.78 \mu\text{M}$ as determined in a SPR assay (Routinely tested).

SDS-PAGE of HAS- 369H



Human HSA, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.