

Datasheet for ABIN6938943

**HSA Protein (AA 25-609) (His tag,AVI tag,Biotin)**[Go to Product page](#)**1** Image

## Overview

Quantity:	200 µg
Target:	HSA
Protein Characteristics:	AA 25-609
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSA protein is labelled with His tag,AVI tag,Biotin.

## Product Details

Sequence:	AA 25-609
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	HSA
Alternative Name:	HSA ( <a href="#">HSA Products</a> )
Background:	Serum albumin (SA) is also known as ALB, which is the main protein of plasma and has a good binding capacity for water,Ca2+,Na+,K+,fatty acids,hormones, bilirubin and drugs.The main function of SA is the regulation of the colloidal osmotic pressure of blood. As Major zinc

## Target Details

transporter in plasma, SA 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.

Molecular Weight: 70.2 kDa

NCBI Accession: [NP\\_000468](#)

## Application Details

Comment: Ready-to-use Avitag™ biotinylated protein:

The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions: For Research Use only

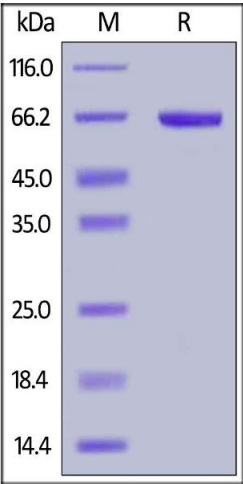
## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C



SDS-PAGE

**Image 1.** Biotinylated Human Serum Albumin, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .