

HRP-Human Serum Albumin Protein, His Tag (SPR verified)

Catalog # HSA-HR223



Synonym

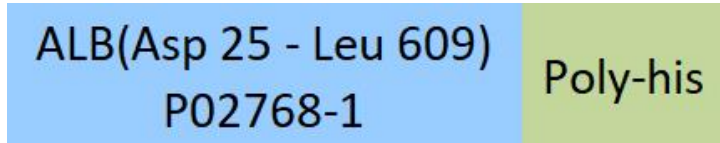
Serum albumin, ALB, Alb

Source

HRP-Human Serum Albumin Protein, His Tag (HSA-HR223) is expressed from human 293 cells (HEK293). It contains AA Asp 25 - Leu 609 (Accession # [P02768-1](#)). It is the HRP labeled form of Human Serum Albumin, His Tag (Cat. No. HSA-H5220).

Predicted N-terminus: Asp 25

Molecular Characterization



Other Tags and Version Biotin & Other Labeled Version

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 67.4 kDa. The protein migrates as 70 kDa, 110-130 kDa and >160 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

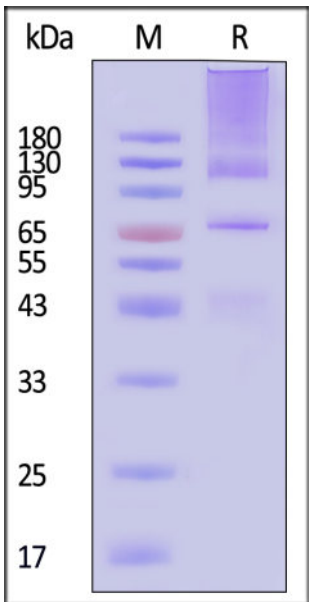
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

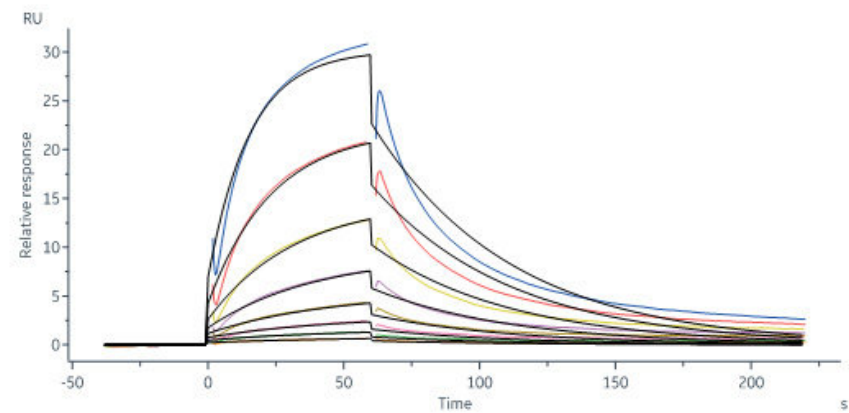
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



HRP-Human Serum Albumin Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-SPR



HRP-Human Serum Albumin Protein, His Tag (Cat. No. HSA-HR223) immobilized on CM4 Chip can bind Human FCGRT&B2M Heterodimer Protein, His Tag (Cat. No. FCN-H52W7) with an affinity constant of 0.433 μ M as determined in a SPR assay (Biacore 8K) (QC tested).

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 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.

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