Human Serum Albumin Protein

Cat. No. BSA-HM401

Description

Source	Recombinant Human Serum Albumin Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.
	It contains Asp25-Leu609.
Accession	P02768-1
Molecular Weight	The protein has a predicted MW of 69.4 kDa. Due to glycosylation, the protein migrates to 69-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

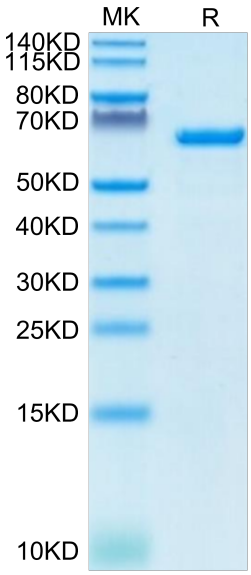
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Human serum albumin (HSA), the most prominent protein in plasma, binds different classes of ligands at multiple sites. HSA provides a depot for many compounds, affects pharmacokinetics of many drugs, holds some ligands in a strained orientation providing their metabolic modification, renders potential toxins harmless transporting them to disposal sites, accounts for most of the antioxidant capacity of human serum, and acts as a NO-carrier.

Assay Data

Bis-Tris PAGE



Human Serum Albumin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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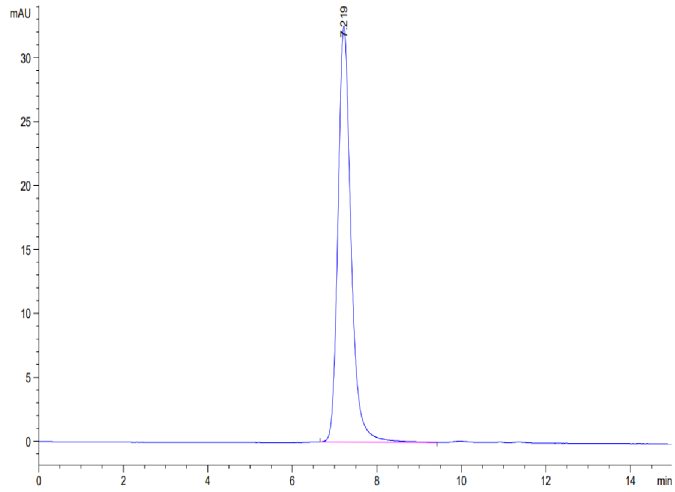
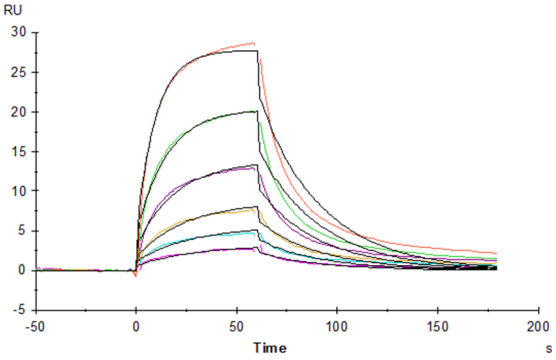
Assay Data



The purity of Human Serum Albumin is greater than 95% as determined by SEC-HPLC.

SPR Data



Human Serum Albumin, His Tag immobilized on CM5 Chip can bind Human FcRn, His Tag with an affinity constant of 0.728 μM as determined in SPR assay (Biacore T200).