**Proteins** 

**Product** Data Sheet





## Serum Albumin/ALB Protein, Mouse (HEK293, His)

Cat. No.: HY-P78245

Synonyms: Albumin; ALB; Serum albumin; ANALBA; FDAH; PRO0883; PRO0903; PRO1341

Species: Source: HEK293

Accession: P07724 (E25-A608)

Gene ID: 11657

Molecular Weight: Approximately 70.19 kDa

## **PROPERTIES**

KOT EKTIES	,			
A Sequence				
	EAHKSEIAHR	YNDLGEQHFK	GLVLIAFSQY	LQKCSYD
	KLVQEVTDFA	KTCVADESAA	NCDKSLHTLF	GDKLCAI
	RENYGELADC	CTKQEPERNE	CFLQHKDDNP	SLPPFER
	EAMCTSFKEN	PTTFMGHYLH	EVARRHPYFY	APELLYY
	YNEILTQCCA	EADKESCLTP	KLDGVKEKAL	VSSVRQR
	SSMQKFGERA	FKAWAVARLS	QTFPNADFAE	ITKLATD
	VNKECCHGDL	LECADDRAEL	AKYMCENQAT	ISSKLQT
	KPLLKKAHCL	SEVEHDTMPA	DLPAIAADFV	EDQEVCK
	EAKDVFLGTF	LYEYSRRHPD	YSVSLLLRLA	KKYEATL
	CAEANPPACY	GTVLAEFQPL	VEEPKNLVKT	NCDLYEK
	YGFQNAILVR	YTQKAPQVST	PTLVEAARNL	GRVGTKC
	PEDQRLPCVE	DYLSAILNRV	CLLHEKTPVS	EHVTKCC
	LVERRPCFSA	LTVDETYVPK	EFKAETFTFH	SDICTLP
	KQIKKQTALA	ELVKHKPKAT	AEQLKTVMDD	FAQFLDT
	AADKDTCFST	EGPNLVTRCK	DALA	
ological Activity	Mouse Serum Albumin, His Tag immobilized on CM5 Chip can bind Mouse FcRn, His Tag with an affas determined in SPR assay (Biacore T200).			is Tag with an affin
arance	Lyophilized powder			
nulation	Lyophilized from $0.22~\mu m$ filtered solution in PBS (pH $7.4$ ). Normally $8\%$ trehalose is added as protectallyophilization.			
otoxin Level	$<$ 1 EU/ $\mu$ g, determined by LAL method.			
nsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.			
ge & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with recommended to freeze aliquots at -20°C or -80°C for extended storage.			

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Room temperature in continental US; may vary elsewhere.

## **DESCRIPTION**

## Background

Serum Albumin/ALB Protein is a versatile protein that binds to water, calcium, sodium, potassium, fatty acids, hormones, bilirubin, and drugs. Its primary role is to regulate the colloidal osmotic pressure of blood. It is the major transporter of zinc in plasma, binding to approximately 80% of all plasma zinc. Similarly, it is the major transporter of calcium and magnesium, binding to approximately 45% of circulating calcium and magnesium in plasma. It may have more than two calcium-binding sites and could also bind calcium in a non-specific manner. The shared binding site between zinc and calcium suggests a potential interaction and transport mechanism between these two elements in the blood. Additionally, ALB binds to the bacterial siderophore enterobactin, inhibiting its ability to facilitate iron uptake by E.coli from ferric transferrin. This limitation of iron utilization may restrict the growth of enteric bacteria such as E.coli. However, ALB does not hinder iron uptake facilitated by the bacterial siderophore aerobactin. ALB also interacts with FCGRT, regulating its own homeostasis, and interacts with TASOR. In plasma, it forms a covalently-linked complex with chromophore-bound alpha-1-microglobulin, but this interaction does not interfere with the binding of fatty acids to ALB.

Caution: Product has not been fully validated for medical applications. For research use only.

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