

Recombinant Human Serum Albumin protein (His tag) ab217817

1 References 4 Images

Description

Product name	Recombinant Human Serum Albumin protein (His tag)		
Purity	> 95 % SDS-PAGE.		
	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.		
Endotoxin level	< 1.000 Eu/µg		
Expression system	HEK 293 cells		
Accession	<u>P02768</u>		
Protein length	Full length protein		
Animal free	No		
Nature	Recombinant		
Species	Human		
Sequence	DAHKSEVAHRFKDLGEENFKALVLIAFAQYLQQCPFEDH VKLVNEVTEFA KTCVADESAENC DKSLHTLFGDKLCTVATLRETYGEMAD CCAKQE PERNE CFLQHKDDNP NLPRLVRPEVDVMCTAFHDNEETFLKKYL YEIARRHPYFY APELLFFAKRYKAAFT ECCQAADKAA CLLPKLDEL RDEG KASSAKQRLKC ASLQKFG ERAFKAWAVARLSQRFPKAEFAEVSKLVTDLT KVHTECCHGDL LECADDRADLAKYICENQDSISSKLKECCEKPLLEKSHCIA EVENDEMPA DLPSLAADFVESKDVCKNYAEAKDVFLGMFLYEYARRHP DYSVVL LRLA KTYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQ NCELFEQLGE YKFQNALLVRYTKKVPQVSTPTLVEVSRNLGKVGSKCCK HPEAKRMPCAE DYSVVLNQLCVLHEKTPVSDRVTKCCTESLVNRRPCFS ALEVDETYVPK EFNAETFTFHADICTLSEKERQIKKQTALVELVKHKPKATK EQLKAVMDD		

Predicted molecular weight	67 kDa including tags
Amino acids	25 to 609
Tags	His tag C-Terminus
Additional sequence information	The predicted N-terminus is Asp 25. This product is the mature full length protein from aa 25 to 609. The signal peptide and propeptide are not included (NP_000468).
Description	Recombinant Human Human Serum Albumin protein (His tag)

Specifications

Our **Abpromise guarantee** covers the use of **ab217817** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Lyophilized

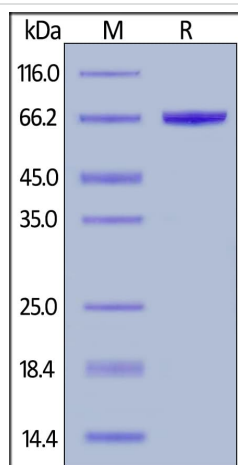
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). pH: 7.40 Constituents: 90% PBS, 10% Trehalose Lyophilised from 0.22 µm filtered solution.
Reconstitution	Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

General Info

Function	Serum albumin, the main protein of plasma, has a good binding capacity for water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. Major zinc transporter in plasma, typically binds about 80% of all plasma zinc.
Tissue specificity	Plasma.
Involvement in disease	Defects in ALB are a cause of familial dysalbuminemic hyperthyroxinemia (FDH) [MIM:103600]. FDH is a form of euthyroid hyperthyroxinemia that is due to increased affinity of ALB for T(4). It is the most common cause of inherited euthyroid hyperthyroxinemia in Caucasian population.
Sequence similarities	Belongs to the ALB/AFP/VDB family. Contains 3 albumin domains.
Post-translational modifications	Kenitra variant is partially O-glycosylated at Thr-620. It has two new disulfide bonds Cys-600 to Cys-602 and Cys-601 to Cys-606. Glycated in diabetic patients. Phosphorylation sites are present in the extracellular medium. Acetylated on Lys-223 by acetylsalicylic acid.
Cellular localization	Secreted.

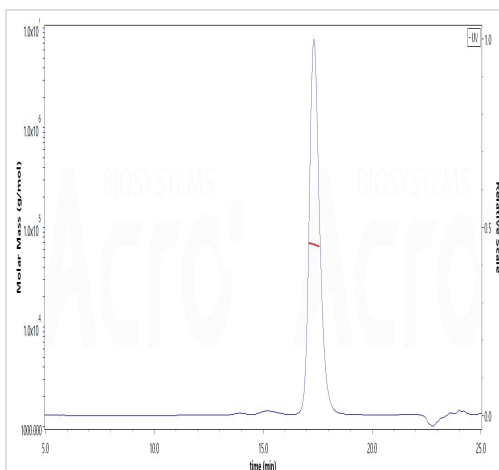
Images



SDS-PAGE - Recombinant Human Serum Albumin protein (His tag) (ab217817)

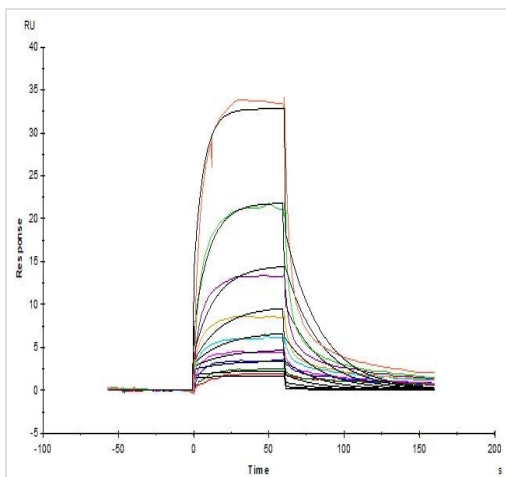
SDS-PAGE analysis of DTT-reduced ab217817 followed by staining overnight with Coomassie Blue.

DTT-reduced protein migrates as 66 kDa in SDS-PAGE due to glycosylation.



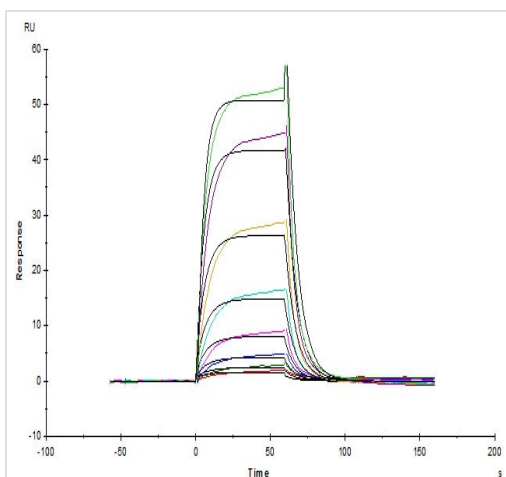
Size Exclusion Chromatography - Recombinant Human Serum Albumin protein (His tag) (ab217817)

The purity of Human Serum Albumin, His Tag (ab217817) is more than 90% and the molecular weight of this protein is around 60-75 kDa verified by SEC-MALS.



Human Serum Albumin Protein, His Tag (ab217817) immobilized on CM4 Chip can bind Human FcγRT&B2M Heterodimer Protein, His Tag with an affinity constant of 0.381 μM as determined in a SPR assay (Biacore T200) (Routinely tested).

Biological Activity - Recombinant Human Serum Albumin protein (His tag) (ab217817)



Bioactivity SPR: Immobilized biotinylated Human FcRN Heterodimer protein on SA chip can bind ab217817, his tag with an affinity constant of 1.78 μM .

Functional Studies - Recombinant Human Serum Albumin protein (His tag) (ab217817)

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