

Product datasheet

Recombinant Human Serum Albumin protein (His tag)
ab217817

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	P02768	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	DAHKSEVAHRFKDLGEEFKALVLIIFAQYLQQCPFEDH VKLVNEVTEFA KTCVADESAENCDSLHTLFGDKLCTVATLRETYGEMAD CCAKQEPERNE CFLQHKDDNPRLPRLVRPEVDVMCTAFHDNEETFLKKYL YEIARRHPYFY APELLFFAKRYKAAFTECCQAADKAAACLLPKLDELDEG KASSAKQRLKC ASLQKFGERAFKAWAVARLSQRFPKAEFAEVSKLVTDLT KVHTECCHGDL LECADDRADLAKYICENQDSISSKLKECCEKPLLEKSHCIA EVENDEMPA DLPSLAADFVESKDVCKNYAEAKDVFLGMFLYEYARRHP DYSVLLLLRLA KTYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQ NCELFEQLGE YKFQNALLVRYTKKVPQVSTPTLVEVSRNLGKVGSKCCK HPEAKRMPCAE DYLSVVLNQLCVLHEKTPVSDRVTKCTESLVNRRPCFS 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

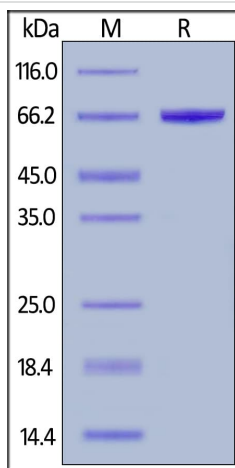
Stability and Storage	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). pH: 7.40 Constituents: 90% PBS, 10% Trehalose Lyophilised from 0.22 µm filtered solution.
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Reconstitution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

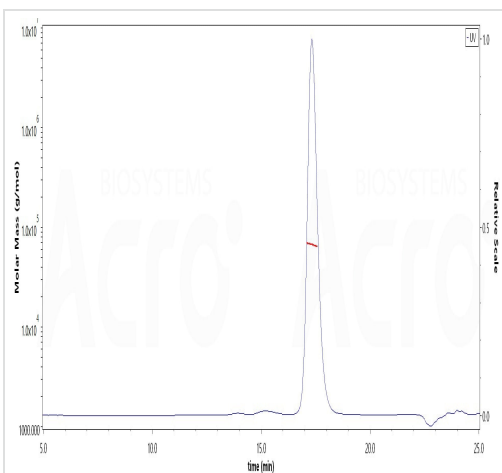
Images



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

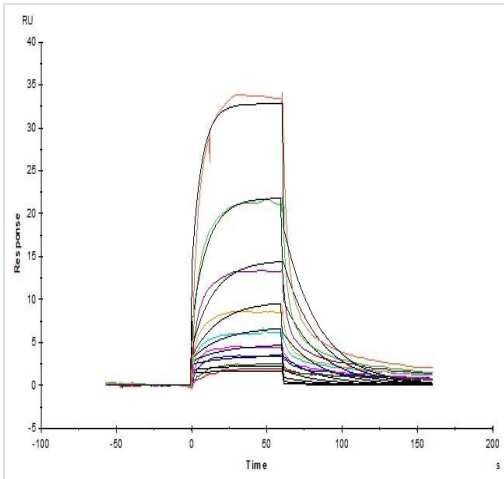
SDS-PAGE analysis of DTT-reduced ab217817 followed by staining overnight with Coomassie Blue.

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



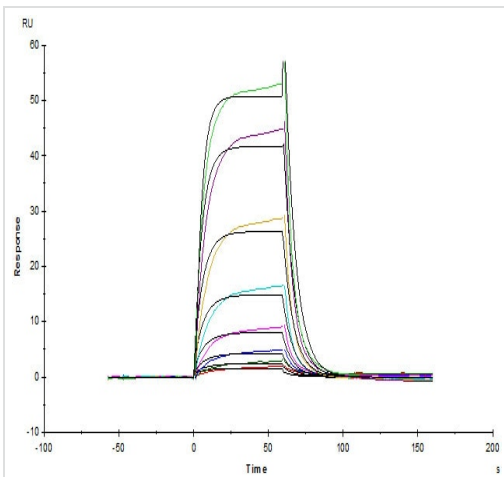
Size Exclusion Chromatography - Recombinant Human Serum Albumin protein (His tag) (ab217817)

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 FcγR2B 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 FcγR2B 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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