Datasheet for ABIN2181228

HSA Protein (AA 25-609) (His tag)

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Overview

Quantity:	500 µg
Target:	HSA
Protein Characteristics:	AA 25-609
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSA protein is labelled with His tag.

Product Details

Sequence:	AA 25-609
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 67.3 kDa. The protein migrates as 66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	HSA
Alternative Name:	HSA (HSA Products)

Target Details

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.
Molecular Weight:	67.4 kDa
NCBI Accession:	NP_000468

Application Details

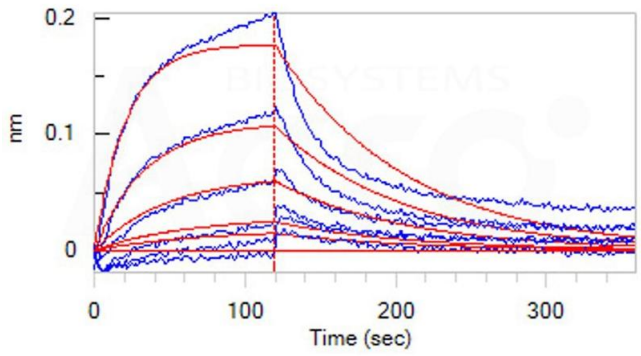
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).

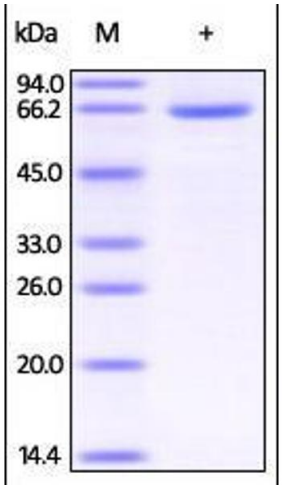
Publications

Product cited in:	Mettler Izquierdo, Varela, Park, Collarini, Lu, Pramanick, Rucker, Lopalco, Etches, Harriman: " High-efficiency antibody discovery achieved with multiplexed microscopy." in: **Microscopy (Oxford, England)**, Vol. 65, Issue 4, pp. 341-52, (2018) (PubMed).



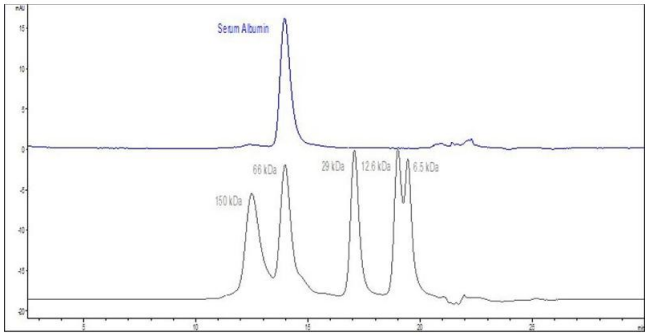
Functional Studies

Image 1. Loaded Biotinylated Human FCGRT&B2M Heterodimer Protein, His,Avitag (ABIN6731270) on SA Biosensor, can bind Human Serum Albumin, His Tag (ABIN2181228) with an affinity constant of 0.647 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



SDS-PAGE

Image 2. Human HSA, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



High Pressure Liquid Chromatography

Image 3. The purity of Human Serum Albumin, His Tag (ABIN2181228) was greater than 90 % as determined by .

Please check the product details page for more images. Overall 4 images are available for ABIN2181228.