SERUM ALBUMIN (ALB) Native Protein

PRODUCT OVERVIEW

Product Name	SERUM ALBUMIN, Native Protein
Full Product Name	PURIFIED HUMAN ALBUMIN
Product Gene Name	ALB native protein
Form/Format	Purified Purified human serum albumin - liquid
Purity/Purification	>99% by SDS PAGE
Concentration	Total protein concentration 1.0 mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 6 months from date of despatch.
Molecular Weight	66kD
OMIM	103600
3D Structure	ModBase 3D Structure for P02768
Perservative Stabilisers	None present. For long term storage the addition of 0.09% sodium azide is recommended. N.B. For functional studies do not add sodium azide
Preparation	Purified albumin from human urine.
Buffer Solution	Ammonium bicarbonate
Target Species	Human
Health and Safety Information	Donor material tested and found negative for HIV1 and 2 antibodies, HBsAg and HCV antibodies.
Applications Tested/Suitable for ALB native protein	Immunoassay (IY)
Related Product Information for ALB native protein	MBS230295, human albumin, is a 66 kDa protein that binds and transports steroids, fatty acids, metal ions and thyroid hormones. Albumin accounts for approximately 50% of blood serum protein.
Other Notes	Small volumes of ALB native protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ALB purchase	MBS230295 is a native protein targeting ALB. Also known as PURIFIED HUMAN ALBUMIN.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALB. It may not necessarily be applicable to this product.

NCBI GI #	4502027
NCBI GeneID	213
NCBI Accession #	NP_000468.1
UniProt Primary Accession #	P02768
UniProt Secondary Accession #	O95574; P04277; Q13140; Q645G4; Q68DN5; Q6UXK4; Q86YG0; Q8IUK7; Q9P157; Q9P1I7; E7ESS9

UniProt Related Accession #	P02768
GenBank Nucleotide #	NM_000477.5
NCBI Official Full Name	serum albumin preproprotein
NCBI Official Synonym Full Names	albumin
NCBI Official Symbol	ALB
NCBI Official Synonym Symbols	FDAH; ANALBA; PRO0883; PRO0903; PRO1341
UniProt Protein Name	Serum albumin
Protein Family	Serum albumin
UniProt Gene Name	ALB
UniProt Entry Name	ALBU_HUMAN
NCBI Protein Information	serum albumin; albumin (32 AA); albumin (AA 34); cell growth inhibiting protein 42; growth-inhibiting protein 20
NCBI Summary for ALB	Albumin is a soluble, monomeric protein which comprises about one-half of the blood serum protein. Albumin functions primarily as a carrier protein for steroids, fatty acids, and thyroid hormones and plays a role in stabilizing extracellular fluid volume. Albumin is a globular unglycosylated serum protein of molecular weight 65,000. Albumin is synthesized in the liver as preproalbumin which has an N-terminal peptide that is removed before the nascent protein is released from the rough endoplasmic reticulum. The product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted albumin. [provided by RefSeq, Jul 2008]
UniProt Comments for ALB	albumin: 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. Plasma. Belongs to the ALB/AFP/VDB family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted; Carrier Chromosomal Location of Human Ortholog: 4q13.3 Cellular Component: extracellular space; protein complex; extracellular region; basement membrane; nucleus Molecular Function: antioxidant activity; toxin binding; protein binding; enzyme binding; copper ion binding; DNA binding; zinc ion binding; chaperone binding; drug binding; oxygen binding; fatty acid binding; pyridoxal phosphate binding Biological Process: receptor-mediated endocytosis; platelet activation; sodium-independent organic anion transport; maintenance of mitochondrion localization; bile acid metabolic process; lipoprotein metabolic process; hemolysis by symbiont of host red blood cells; cellular response to starvation; response to mercury ion; bile acid and bile salt transport; response to organic substance; retinal homeostasis; platelet degranulation; transport; negative regulation of programmed cell death; blood coagulation; transmembrane transport; positive regulation of circadian sleep/wake cycle, non-REM sleep; response to nutrient; negative regulation of apoptosis Disease: Analbuminemia; Hyperthyroxinemia, Familial Dysalbuminemic
Research Articles on ALB	**1.** Data indicate that serum albumin binding site 1 is a preformed binding pocket within the core of subdomain IIA, which comprises six helices of the subdomain and a loop-helix feature (residues 148-154) contributed by subdomain IB.
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