ALB Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ALB, Recombinant Protein
Full Product Name	Recombinant Human ALB Protein
Product Gene Name	ALB recombinant protein
Product Synonym Names	Serum albumin
Sequence	DAHKSEVAHR FKDLGEENFK ALVLIAFAQY LQQCPFEDHV KLVNEVTEFA KTCVADESAE NCDKSLHTLF GDKLCTVATL RETYGEMADC CAKQEPERNE CFLQHKDDNP NLPRLVRPEV DVMCTAFHDN EETFLKKYLY EIARRHPYFY APELLFFAKR YKAAFTECCQ AADKAACLLP KLDELRDEGK ASSAKQRLKC ASLQKFGERA FKAWAVARLS QRFPKAEFAE VSKLVTDLTK VHTECCHGDL LECADDRADL AKYICENQDS ISSKLKECCE KPLLEKSHCI AEVENDEMPA DLPSLAADFV ESKDVCKNYA EAKDVFLGMF LYEYARRHPD YSVVLLLRLA KTYETTLEKC CAAADPHECY AKVFDEFKPL VEEPQNLIKQ NCELFEQLGE YKFQNALLVR YTKKVPQVST PTLVEVSRNL GKVGSKCCKH PEAKRMPCAE DYLSVVLNQL CVLHEKTPVS DRVTKCCTES LVNRRPCFSA LEVDETYVPK EFNAETFTFH ADICTLSEKE RQIKKQTALV ELVKHKPKAT KEQLKAVMDD FAAFVEKCCK ADDKETCFAE EGKKLVAASQ AALGL
Host	P.Pichia
Form/Format	Lyophilized from a 0.2 mum filtered solution of PBS, pH7.4.
Purity/Purification	>95% as determined by reducing SDS-PAGE
Preparation and Storage	Lyophilized protein should be stored at -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 2-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at -20 degree C for 3 months.
OMIM	103600
3D Structure	ModBase 3D Structure for P02768
Endotoxin	Less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
Applications Tested/Suitable for ALB recombinant protein	ELISA (EIA), Western Blot (WB), SDS-PAGE
Related Product Information for ALB recombinant protein	Recombinant Human ALB Protein is produced by yeast expression system and the target gene encoding Asp25-Leu609 is expressed with a 8His tag at the C-terminus.
Other Notes	Small volumes of ALB recombinant 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	MBS8304850 is a recombinant protein targeting ALB. Also known as Recombinant Human ALB Protein. Host: P.Pichia.

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 Related Accession #	P02768
GenBank Nucleotide #	NP_000468.1
NCBI Official Full Name	serum albumin preproprotein
NCBI Official Synonym Full Names	albumin
NCBI Official Symbol	ALB
NCBI Official Synonym Symbols	HSA; 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
NCBI Summary for ALB	This gene encodes the most abundant protein in human blood. This protein functions in the regulation of blood plasma colloid osmotic pressure and acts as a carrier protein for a wide range of endogenous molecules including hormones, fatty acids, and metabolites, as well as exogenous drugs. Additionally, this protein exhibits an esterase-like activity with broad substrate specificity. The encoded preproprotein is proteolytically processed to generate the mature protein. A peptide derived from this protein, EPI-X4, is an endogenous inhibitor of the CXCR4 chemokine receptor. [provided by RefSeq, Jul 2016]
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; Carrier; Secreted 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; copper ion binding; enzyme binding; DNA binding; zinc ion binding; chaperone binding; drug binding; oxygen binding; fatty acid binding; pyridoxal phosphate binding Biological Process: platelet activation; receptor-mediated endocytosis; sodium-independent organic anion transport; bile acid metabolic process; maintenance of mitochondrion localization; lipoprotein metabolic process; hemolysis by symbiont of host red blood cells; cellular response to starvation; response to organic substance; response to mercury ion; bile acid and bile salt transport; 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.** a high CRP/Alb ratio at POD 14 was an independent prognostic factor for poor overall survival (OS) . CRP/Alb ratio on POD 14 may be a useful prognostic factor in patients with intrahepatic cholangiocarcinoma (ICC) who have undergone curative resections.
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