

Recombinant Human ALB, His-tagged

Cat. No. ALB-61H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ALB, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	ALB, also known as Serum albumin, is the most abundant protein in human blood plasma. This protein constitutes about half of the blood serum protein. It is soluble and monomeric. Albumin transports hormones, fatty acids, and other compounds, buffers pH, and maintains osmotic pressure, among other functions. 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.
Form	Liquid. In phosphate buffered saline (pH 7.4) containing 10% glycerol.
Molecular Mass	68kDa (597aa) 50-70kDa (SDS-PAGE under reducing conditions.)
AA Sequence	RGVFRRDAHK SEVAHRFKDL GEENFKALVL IAFAQYLQQC PFEDHVKLNV EVTEFAKTCV ADESAENCDK SLHTLFGDKL CTVATLRETY GEMADCCAKQ EPERNECFLQ HKDDNPNLPR LVRPEVDVMC TAFHDNEETF LKKYLYEIAR RHPYFYAPEL LFFAKRYKAA FTECCQAADK AACLLPKLDE LRDEGKASSA KQRLKCASLQ KFGERAFAKAW AVARLSQRFP KAEFAEVSKL VTDLTQVHTE CCHGDLLECA DDRADLAKYI CENQDSISSK LKECCEKPLL EKSHCIAEVE

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NDEMPADLPS LAADFVESKD VCKNYAEAKD VFLGMFLYEY ARRHPDYSVV
 LLLRLAKTYE TTLEKCCAAA DPHECYAKVF DEFKPLVEEP QNLIKQNCCEL
 FEQLGEYKFQ NALLVRYTKK VPQVSTPTLV EVSRNLGKVG SKCCKHPEAK
 RMPCAEDYLS VVLNQLCVLH EKTPVSDRVT KCCTESLVNR RPCFSALEVD
 ETYVPKEFNA ETFTFHADIC TLSEKERQIK KQTALVELVK HKPKATKEQL
 KAVMDDFAAF VEKCKKADDDK ETCFAEEGKK LVAASQAALG LHHHHHH

Endotoxin	< 1.0 eu per 1 microgram of protein (determined by lal)
Purity	>90% by SDS - PAGE.
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	ALB albumin [Homo sapiens]
Official Symbol	ALB
Synonyms	ALB; albumin; serum albumin; albumin (32 AA); albumin (AA 34); growth-inhibiting protein 20; cell growth inhibiting protein 42; PRO0883; PRO0903; PRO1341; DKFZp779N1935;
Gene ID	213
mRNA Refseq	NM_000477
Protein Refseq	NP_000468

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UniProt ID	P02768
Chromosome Location	4q13.3
Pathway	Bile acid and bile salt metabolism, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; HDL-mediated lipid transport, organism-specific biosystem; Hemostasis, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	DNA binding; antioxidant activity; cell surface binding; chaperone binding; copper ion binding; drug binding; drug binding; enzyme binding; fatty acid binding; fatty acid binding; metal ion binding; contributes_to oxygen binding; protein binding; pyridoxal phosphate binding; toxin binding; zinc ion binding;

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