

Recombinant Human ALB, His-tagged

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

SPECIFICATION

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|-------------------------|---|
| 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 | <p>RGVFRRDAHK SEVAHRFKDL GEENFKALVL IAFAQYLQQC PFEDHVKLVN EVTEFAKTCV ADESAENCDK SLHTLFGDKL CTVATLRETY GEMADCCAQK EPERNECFLQ HKDDNPNLPR LVRPEVDVMC TAFHDNEETF LKKYLYEIAR RHPYFYAPEL LFFAKRYKAA FTECCQAADK AACLLPKLDE LRDEGKASSA KQRLKCASLQ KFGERAFAKAW AVARLSQRFP KAFAEVSKL VTDLTKVHTE CCHGDLLECA DDRADLAKYI CENQDSISSK LKECCEKPLL EKSHCIAEVE</p> |

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

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|----------------------|--|
| 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

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|------------------------|---|
| 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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