

Recombinant Human ALB Protein, C13&N15-labeled, His-tagged

Cat. No. ALB-003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALB is a recombinant, stable isotope-labeled human albumin which incorporates [13C6, 15N4]-Arginine and [13C6, 15N2]-Lysine. Expressed in human 293 cells, it is designed to be used as an internal standard for bioanalysis of albumin in mass-spectrometry. ALB is a monomer of 607 amino acids (including C-terminal polyhistidine and flag tags).
Species	Human
Source	HEK293
Description	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.
Form	Supplied as a lyophilized powder containing phosphate buffered saline.
Molecular Mass	~69 kDa
AA Sequence	RRDAHKSEVAHRFKDLGEENFKALVLIAFAQYLQQCPFEDHVKLVNEVTEFAKTCVA DESAENC DKSLHTLFGDKLCTVATLRETYGEMADCCAKQEPERNECFLQHKDDNP

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NLPRLVRPEVDVMCTAFHDNEETFLKKYLYEIARRHPYFYAPELLFFAKRYKAAFTEC
 CQAADKAACLLPKLDEL RDEGKASSAKQRLK CASLQKFGERAFAKAWAVARLSQRFP
 KAFAEVSKLVTDLT KVHTECCHGDLLECADDRADLAKYICENQDSISSKLKECCEK
 PLLEKSHCIAEVENDEMPADLPSLAADFVESKDVCKNYAEAKDVFLGMFLYEYARRH
 PDYSVLLLLRLAKTYETTLEKCCAAADPHECYAKVFDEFKPLVEEPQNLIKQNCELFE
 QLGEYKFQNALLVRYTKKVPQVSTPTLVEVSRNLGKVGSKCCKHPEAKRMPCAEDY
 LSVVLNQLCVLHEKTPVSDRVTKCCTESLVNRRPCFSALEVDETYVPKEFNAETFTF
 HADICTLSEKERQIKKQTALVELVKHKPKATKEQLKAVMDDFAAFVEKCCKADDKET
 CFAEEGKKLVAAASQAALGLDYKDDDDKGHHHHHHHHGGGQ

Purity ≥98% Heavy amino acids incorporation efficiency by MS

Storage At -20 centigrade.

GENE INFORMATION

Gene Name ALB albumin [Homo sapiens (human)]

Official Symbol ALB

Synonyms ALB; albumin; HSA; PRO0883; PRO0903; PRO1341;

Gene ID 213

mRNA Refseq NM_000477

Protein Refseq NP_000468

MIM 103600

UniProt ID P02768

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