

Recombinant Human CLU protein, His-tagged

Cat. No. CLU-11H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLU protein (Asp23-Arg227 (β chain) & Ser228-Glu449 (α chain)), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	427
Description	Clusterin (CLU) is also known as dimeric acidic glycoprotein (DAG protein), testosterone repressed prostate message-2 (TRPM-2), sulfated glycoprotein-2 (SGP-2) and complement lysis inhibitor (CLI), is a secreted multifunctional glycoprotein protein which belongs to the clusterin family. Intracellular cleavages of the precursor of clusterin remove the signal peptide and generate comparably sized α and β chains which are secreted as an 80 kDa Nglycosylated disulfidelinked heterodimer. DAG protein is predominantly expressed in adult testis, ovary, adrenal gland, liver, heart, and brain and in many epithelial tissues during embryonic development. Clusterin involve in several basic biological events such as cell death, tumor progression, and neurodegenerative disorders. Upregulation of clusterin mRNA and protein levels detected in diverse disease states and in in vitro systems have led to suggestions that it functions in membrane lipid recycling, in apoptotic cell death, and as a stress-induced secreted chaperone protein, amongst others.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 50.9 kDa (Asp23-Glu449, α chain 24.5 kDa + β chain 27 kDa) and was cleaved into α chain and β chain, which form a heterodimer linked by disulfide bonds. DTT reduced protein migrates as 39 kDa and 40 kDa bands in SDS-PAGE due to glycosylation, corresponding to the cleaved β chain, and α chain respectively.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CLU
Official Symbol	CLU
Synonyms	CLU; clusterin; APOJ, CLI, clusterin (complement lysis inhibitor, SP 40,40, sulfated glycoprotein 2, testosterone repressed prostate message 2, apolipoprotein J); apolipoprotein J; complement lysis inhibitor; KUB1; SGP 2; SP 40; sulfated glycoprotein 2; testosterone repressed prostate message 2; TRPM 2; ku70-binding

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protein 1; aging-associated protein 4; complement cytolysis inhibitor; complement-associated protein SP-40,40; testosterone-repressed prostate message 2; CLI; AAG4; APOJ; SGP2; APO-J; SGP-2; SP-40; TRPM2; TRPM-2; NA1/NA2; MGC24903

Gene ID 1191

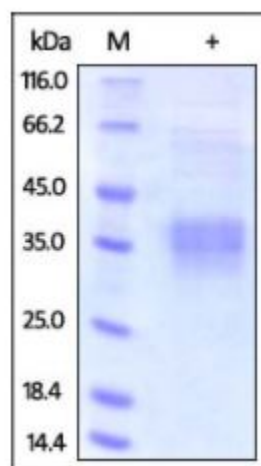
mRNA Refseq NM_001831

Protein Refseq NP_001822

MIM 185430

UniProt ID P10909

SDS-PAGE of CLU-11H



Human Clusterin, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

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