

Recombinant Human CLU, Flag-tagged

Cat. No. CLU-106H Lot. No. (See product label)

SPECIFICATION

Product Overview The Clusterin Human contains a total 438 amino acids and a calculated molecular mass of 51.27kDa (calculated). The AA sequence (AA 1-427) is identical to Swiss-Prot-P10909 (AA 23-449, secreted Human Clusterin). C-terminal Flag-tag 11 extra AA (underlined).

Species Human

Source HEK293

ProteinLength 1-427;23-449 a.a.

Description The protein encoded by this gene is a secreted chaperone that can under some stress conditions also be found in the cell cytosol. It has been suggested to be involved in several basic biological events such as cell death, tumor progression, and neurodegenerative disorders. Alternate splicing results in both coding and non-coding variants.

Form Filtered, White, Lyophilized powder. Filtered (0.4 micron) and lyophilized PBS, pH 7.5.

Molecular Mass 51.27kDa

AA Sequence
 DQTVSDNELQ EMSNQGSKYV NKEIQNAVNG VKQIKTLIEK TNEERKTLLS
 NLEEAKKKKE DALNETRESE TKLKELPGVC NETMMALWEE CKPCLKQTCM
 KFYARVCRSGS GLVGRQLEE FLNQSSPFYF WMNGDRIDSL LENDRQQTHM
 LDVMQDHFSRA SSIIDELFQ DRFFTREPQD TYHYLPFSLP HRRPHFFFPK

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SRIVRSLMPF SPYEPLNFHA MFQPFLEMIH EAQQAMDIHF HSPAFQHPPT
 EFIREGDDDR TVCREIRHNS TGCLRMKDQC DKCREILSVD
 CSTNNPSQAKLRRELESLQ VAERLTRKYN ELLKSYQWKM LNTSSLLEQL
 NEQFNWVSRL ANLTQGEDQYYLRVTTVASH TSDSDVPSGV TEVVVKLFDS
 DPITVTVPVE VSRKNPKFME TVA EKALQEY RKKHREEAAA DYKDDDDK.

Purity Greater than 95% as determined by SDS PAGE.

Storage Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

Reconstitution Add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product not sterile! Please filter the product by an appropriate sterile filter before using it in cell culture.

GENE INFORMATION

Gene Name [CLU clusterin \[Homo sapiens \(human\) \]](#)

Official Symbol CLU

Synonyms CLU; CLI; AAG4; APOJ; CLU1; CLU2; KUB1; SGP2; APO-J; SGP-2; SP-40; TRPM2; TRPM-2; NA1/NA2; clusterin; apolipoprotein J; ku70-binding protein 1; sulfated glycoprotein 2; aging-associated protein 4; complement lysis inhibitor; complement cytolysis inhibitor; complement-associated protein SP-40,40; testosterone-repressed prostate message 2

Gene ID [1191](#)

mRNA Refseq [NM_001831](#)

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Protein Refseq	NP_001822
MIM	185430
UniProt ID	P10909
Chromosome Location	8p21-p12
Pathway	Platelet activation; Platelet degranulation; Response to elevated platelet cytosolic Ca ²⁺
Function	NOT ATPase activity; misfolded protein binding; ubiquitin protein ligase binding

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