

Recombinant Mouse Clusterin, Flag-tagged

Cat. No. Clu-1317M **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Clusterin produced in *HEK293* is a single, glycosylated, polypeptide chain containing 438 amino acids and having a molecular mass of 50.55kDa. The Mouse Clusterin is fused to 11 amino acid flag tag at c-terminus and purified by proprietary chromatographic techniques.

Species Mouse

Source HEK293

Description Clusterin mRNA and Clusterin protein are shown to increase with androgen treatment. Binding of clusterin to the LDL-Receptor plays a role in the pathogenesis of membranous glomerulonephritis. Clusterin is down regulated in CaP in association with matched benign controls. Clusterin is involved in cellular senescence and tumorigenesis. Clusterin is involved in photo-oxidative cell death pathway. Clusterin is a functional tumor marker for the diagnosis of pediatric large cell lymphoma. Clusterin is activated in low pH. Clusterin is involved in the inhibition of NF-kappaB signaling through stabilization of I kappaBs thus results in suppression of tumor cell motility. N-terminal deletion of clusterin is vital for its alterations of biogenesis in esophageal squamous cell carcinoma.

Amino Acid Sequence EQEVSDNELQ ELSTQGSRYI NKEIQNAVQG VKHIKT LIEK TNAERKSLLN
SLEEAKKKKE DALEDTRDSE MKLKAFPEVC NETMMALWEE CKPCLKHTCM
KFYARVCRSG SGLVGQQL EE FLNQSSPFYF WMNGDRIDSL LESDRQQSQV
LDAMQDSFAR ASGIIDTLFQ DRFFARELHD PHYFSPIGFP HKRPHFLYPK

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SRLVRSMLSP SHYGPPSFHN MFQPPFEMIH QAQQAMDVQL HSPAFQFPDV
 DFLREGEDDR TVCKEIRRNS TGCLKMKGQC EKCQEILSVD CSTNNPAQAN
 LRQELNDSLQ VAERLTEQYK ELLQSFQSKM LNTSSLLEQL NDQFNWVSQL
 ANLTQGEDKY YLRVSTVTTH SSDSEVPSRV TEVVVKLFDS DPITVVLPEE
 VSKDNPKFMD TVA EKALQEY RRKSRAEAAA DYKDDDDK

Purity Greater than 95% as determined by SDS PAGE.

Physical Appearance White lyophilized (freeze-dried) powder.

Formulation Lyophilized from 0.5 mg/ml containing 20mM Tris pH 7.5 and 20mM NaCl.

Solubility Add of deionized H₂O to a conc. of 0.5mg/ml and let the lyophilized pellet dissolve completely.

Stability 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. The lyophilized protein remains stable until the expiry date when stored at -20°C.

GENE INFORMATION

Gene Name [Clu clusterin \[Mus musculus \]](#)

Synonyms Clu; clusterin; Cli; ApoJ; Sgp2; SP-40; Sgp-2; Sugp-2; A1893575; D14Ucla3; Apolipoprotein J; complement lysis inhibitor; testosterone repressed prostate message; testosterone repressed prostate message-2

Gene ID [12759](#)

mRNA Refseq [NM_013492](#)

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Protein Refseq NP_038520

UniProt ID Q06890

**Chromosome
Location** 14 28.0cM

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