



Product Datasheet

Product Name	Clusterin Mouse Recombinant
Cata No	CB501351
Source	<i>Human Embryonic Kidney 293 Cells</i>
Synonyms	CLI, AAG4, KUB1, SGP2, SGP-2, SP-40, TRPM2, MGC24903, Complement-associated protein SP-40, Complement cytolysis inhibitor, NA1/NA2, Apolipoprotein J, Apo-J, Testosterone-repressed prostate message 2, TRPM-2, Sulfated glycoprotein 2, Clu, Apoj, Msgp-2, Sugp-2, AI893575, D14Ucla3.

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 IkappaBs 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.

Recombinant Mouse Clusterin produced in HEK293 cells 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.

Physical Appearance

White lyophilized (freeze-dried) powder.

Purity

Greater than 95% as determined by SDS PAGE.

Formulation

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

Reconstitution

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.

Sequence

EQEVSDNELQ ELSTQGSRYI NKEIQNAVQG
VKHIKT LIEK TNAERKSLLN SLEEAKKKKE
DALEDTRDSE MKLKAFPEVC NETMMALWEE
CKPCLKHTCM KFYARVCRSG SGLVGQQL EE
FLNQSSPFYF WMNGDRIDSL LESDRQQSQV
LDAMQDSFAR ASGIIDTLFQ DRFFARELHD
PHYFSPIGFP HKRPHFLYPK SRLVRS LMSP
SHYGPPSFHN MFQPPFEMIH QAQQAMDVQL
HSPAFQFPDV DFLREGEDDR TVCKEIRRNS
TGCLKMKGQC EKCQEILSVD CSTNNPAQAN
LRQELNDSLQ VAERLTEQYK ELLQSFQSKM
LNTSSLLEQL NDQFNWVSQL ANLTQGEDKY

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YLRVSTVTTH SSDSEVPSRV TEVVVKLFDS
DPITVVLPEE VSKDNPKFMD TVA EKALQEY
RRKSRAEAAA DYKDDDDK

Applications
Western blotting

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