



## Product Datasheet

<b>Product Name</b>	Clusterin Canine Recombinant, HEK
<b>Cata No</b>	CB501352
<b>Source</b>	<i>Human Embryonic Kidney 293 Cells</i>
<b>Synonyms</b>	CLI, AAG4, KUB1, SGP2, SGP-2, SP-40, TRPM2, MGC24903, Clusterin, Glycoprotein 80, Gp80, CLU.

### 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.

Clusterin Canine Recombinant produced in HEK293 cells is a single, glycosylated, Polypeptide chain containing 436 amino acids and having a molecular mass of 50.72 kDa. The protein is fused with 13 amino acid Flag tag at N-Terminus.

The Apolipoprotein-J Canine is purified by proprietary chromatographic techniques.

### Purity

Greater than 95% as determined by SDS PAGE.

### Formulation

Canine Clusterin was lyophilized from 0.5mg/ml solution containing 20mM Tris buffer and 20mM NaCl, pH7.5

### Reconstitution

Add deionized H<sub>2</sub>O to a working volume 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

**PGDYKDDDDK PAGDQAVSDT ELQEMSTEGS**  
KYINKEIKNA LKGVKQIKTL IEQTNEERKS  
LLSNLEEAKK KKEDALNDTK DSETKLKASQ  
GVCNDTMMAL WEECKPCLKQ TCMKFYARVC  
RSGSGLVGHQ LEEFLNQSSP FYFWMNGDRI  
DSLLENDRQQ THALDVMQDS FNRASSIMDE  
LFQDRFFTRE PQDTHYHSPF SLFQRRPFFN  
PKFRIARNII PFPRFQPLNF HDMFQPPFDM  
IHQAQQAMDV NLHRIPYHFP IEFPEEDNRT  
VCKEIRHNST GCLKMKDQCE KCQEILSVDC  
SSNPAQVQL RQELSNLQI AEKFTKLYDE  
LLQSYQEKMFM NTSSLLKQLN EQFSWVSQLA  
NLTQSEDPFY LQVTTVGSQT SDSNVPVGF  
KVVVKLFDSD PITVMIPEAV SRNNPKFMET  
VAEKALQEYRQKHREE

### Applications

ELISA, Western Blot.

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# California Bioscience

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83103 Avenue 48, Ste.1B #204  
Coachella, CA 92236 USA  
Phone : +1.6268339877  
Email : [info@cali-bio.com](mailto:info@cali-bio.com)

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