
Product Data Sheet

Product Name: Clusterin Mouse

Cat. No.: GP26006

Batch No.: 1

Product Data

Purity >98%

Source HEK293

Physical
Appearance

solid

Shipping
Condition atRoomtemp.

Synonyms

CLI, AAG4, KUB1, SGP2, SGP-2, SP-40, TRPM2, MGC24903, Clusterin, Apolipoprotein J, Apo-J.

Amino Acid
Sequence

EQEVSDNELQ ELSTQGSRYI NKEIQNAVQG VKHIKTIEK TNAERKSLLN
 SLEEAKKKKE DALEDTRDSE MKLKAFPEVC NETMMALWEE CKPCLKHTCM
 KFYARVCRSG SGLVGQQLLE FLNQSSPFYF WMNGDRIDSL LESDRQQSQV
 LDAMQDSFAR ASGIIDTLFQ DRFFARELHD PHYFSPIGFP HKRPHFLYPK
 SRLVRS LMSP SHYGPPSFHN MFQPFEMIH QAQQAMDVQL HSPAFQFPDV
 DFLREGEDDR TVCKEIRRNS TGCLKMKGQC EKCQEILSVD CSTNNPAQAN
 LRQELNDSLQ VAERLTEQYK ELLQSFQSKM LNTSSLLEQL NDQFNWVSQL
 ANLTQGEDKY YLRVSTVTTH SSDSEVPSRV TEVVVKLFDS DPITVVLPEE
 VSKDNPKFMD TVA EKALQEY RRKSRAEHHH HHH

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.

Formulation

Clusterin filtered (0.4 μ m) and lyophilized from 0.5mg/ml in 20 mM Tris buffer and 50 mM NaCl, pH 7.5.

Introduction

Clusterin also known as Apolipoprotein J (APO-J) is a 75-80 kD disulfide-linked heterodimeric protein containing about 30% of N-linked carbohydrate rich in sialic acid but truncated forms targeted to the nucleus have also been identified. The precursor polypeptide chain is cleaved proteolytically to remove the 22-mer secretory signal peptide and subsequently between residues 227/228 to generate the a and b chains. These are assembled in anti-parallel to give a heterodimeric molecule in which the cysteine-rich centers are linked by 5 disulfide bridges and are flanked by 2 predicted

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coiled-coil α -helices and 3 predicted amphipathic α -helices. Across a broad range of species clusterin shows a high degree of sequence homology ranging from 70% -80%. It is nearly ubiquitously expressed in most mammalian tissues and can be found in plasma, milk, urine, cerebrospinal fluid and semen. It is able to bind and form complexes with numerous partners such as immunoglobulins, lipids, heparin, bacteria, complement components, paraoxonase, beta amyloid, leptin and others. Clusterin has been ascribed a plethora of functions such as phagocyte recruitment, aggregation induction, complement attack prevention, apoptosis inhibition, membrane remodeling, lipid transport, hormone transport and/or scavenging, matrix metalloproteinase inhibition. Clusterin is up/down regulated on the mRNA or protein level in many pathological and clinically relevant situations including cancer, organ regeneration, infection, Alzheimer disease, retinitis pigmentosa, myocardial infarction, renal tubular damage, autoimmunity and others.

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 .

Background

Clusterin Mouse Recombinant is a single, glycosylated polypeptide chain containing 433 amino acids (22-448a.a) and having a molecular mass of 50.2kDa (calculated). Clusterin is fused to a 6 a.a His tag at C-terminal.

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