

Apolipoprotein-J Recombinant Protein | Clu recombinant protein

Recombinant Rat Apolipoprotein-J

CATALOG #
AAA38204

HOST
E Coli

PRODUCT SYNONYMS

Apolipoprotein-J; Recombinant Rat Apolipoprotein-J; Clusterin Rat; Clusterin Rat Recombinant; CLI; AAG4; KUB1; SGP2; SGP-2; SP-40; TRPM2; MGC24903; Complement-associated protein SP-40; 40; Complement cytolysis inhibitor; NA1/NA2; Apolipoprotein J; Apo-J; Testosterone-repressed prostate message 2; TRPM-2; rClusterin; Clu recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95% as determined by SDS PAGE.
Form/Format	Lyophilized from 0.5 mg/ml in 0.01M Tris pH 7.2. White lyophilized (freeze-dried) powder.
Sequence	MASMTGGQQM GRDPNSSSPF YFWMNGDRID SLLESDRQQS QVLDAMQDSF TRASGIIDTL FQDRFFTHEP QDIHHFSPMG FPHKRPHLLY PKSRLVRSML PLSHYGPLSF HNMFQPPFDM IHQAQQAMDV QLHSPALQFP DVDFLKEGED DRTVCKEIRH NSTGCLKMKG QCEKCQEILS VDCSTNNPAQ ANLRQELNDS LQVAERLTQQ YNELLHSLQS KMLNTSSLLE QALEHHHHHH
Sequence Length	447
Solubility	Add 0.2 ml of deionized H2O and let the lyophilized pellet dissolve completely.
Preparation and Storage	Store lyophilized protein at -20 degree C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 degree C for a limited period of time; it does not show any change after two weeks at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for Clu recombinant protein

Description: The Clusterin Rat was constructed as a recombinant protein with N-terminal fusion of T7-Tag (16AA) and C-terminal fusion of His-Tag (9AA). The Clusterin Rat His-Tagged Fusion Protein, produced in E Coli, is 26.5 kDa protein containing 215 amino acid residues of the APO-J Rat and 25 additional amino acid residues His-Tag, T7-Tag (underlined).

Introduction: Clusterin also named 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 five disulfide bridges and are flanked by two predicted coiled-coil a-helices and three predicted amphipathic a-helices. Across a broad range of species clusterin shows a high degree of sequence homology ranging from 70% to 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. A genuine function of clusterin has not been defined. One tempting hypothesis says that clusterin is an extracellular chaperone protecting cells from stress induced insults caused by degraded and misfolded protein precipitates. Clusterin is up- or 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.

Product Categories/Family for Clu recombinant protein

Cytokines and Growth Factors; Cytokines; Apolipoprotein

NCBI AND UNIPROT INFORMATION

NCBI GI #	46048420
NCBI GeneID	24854
NCBI Accession #	NP_444180.2
NCBI GenBank Nucleotide #	NM_053021.2
UniProt Accession #	P05371
Molecular Weight	51,375 Da
NCBI Official Full Name	clusterin
NCBI Official Synonym Full Names	clusterin
NCBI Official Symbol	Clu
NCBI Official Synonym Symbols	CLI; DAG; APOJ; SGP2; SP40; SGP-2; SP-40; Trpm2; Trpmb; TRPM-2; TRPM2B; RATTRPM2B
NCBI Protein Information	clusterin; dimeric acid glycoprotein; sulfated glycoprotein 2; testosterone repressed prostate message 2; testosterone-repressed prostate message; testostrone-repressed prostate message 2
UniProt Protein Name	Clusterin
UniProt Gene Name	Clu
UniProt Synonym Gene Names	DAG; SGP-2; TRPM-2
UniProt Entry Name	CLUS_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/clu-recombinant-protein-e-coli/38204>