

Recombinant Rattus Clusterin, His-tagged, T7-tagged

Cat. No. Clu-108R Lot. No. (See product label)

SPECIFICATION

Product Overview

The Rat Clusterin 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.

Species Rat

Source E.coli

Description

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. The precursor polypeptide chain is cleaved proteolytically to remove the 22-mer secretory signal peptide and subsequently between residues 227/228 to generate and the 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 -helices and three predicted amphipathic α -helices. 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.

Amino acid sequence

MASMTGGQQM GRDPNSSSPF YFWMNGDRID SLLESDRQQS QVLDAMQDSF
 TRASGIIDTL FQDRFFTHEP QDIHHFSPMG FPHKRPHLLY PKSRLVRS LM
 PLSHYGPLSF HNMFPFFDM IHQAQQAMDV QLHSPALQFPD VDFLKEGED
 DRTVCKEIRH NSTGCLKMKG QCEKCQEILS VDCSTNPAQ ANLRQELNDS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LQVAERLTQQ YNELLHSLQS KMLNTSSLLE QALEHHHHHH

Specificity

The amino acid sequence of the Clusterin Rat recombinant is 100% homologous to the amino acid sequence 146-360 of the Clusterin Rat precursor.

Purification Method

Ni-NTA chromatography.

Purity

Greater than 95% (SDS PAGE analyzed).

Formulation

Sterile filtered and lyophilized from 0.5 mg/ml in 0.01M Tris pH 7.2.

Solubility

Add 0.2 ml of deionized H₂O and let the lyophilized pellet dissolve completely.

Applications

Western blotting

Storage

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 \[Rattus norvegicus \]](#)

Synonyms

Clu; Clusterin; CLI; APOJ; SGP2; SGP-2; SP-40; Trpm2; Trpmb; TRPM-2; TRPM2B; RATTRPM2B; CLU; TRPM2; KUB1; AAG4; MGC24903; Dimeric acidic glycoprotein; DAG protein; Testosterone repressed prostate message-2; Sulfated glycoprotein-2; Complement lysis inhibitor; SP-40; MGC24903; Apolipoprotein J

Gene ID

[24854](#)

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mRNA Refseq	NM_053021
Protein Refseq	NP_444180
UniProt ID	P05371
Chromosome Location	15p12
Function	protein binding

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