



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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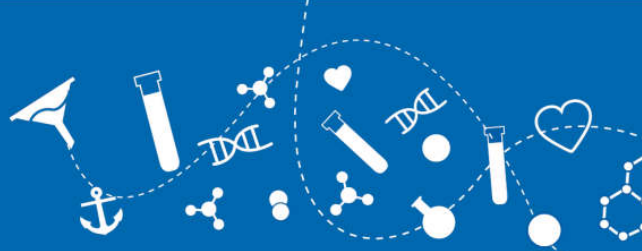
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## Apolipoprotein J, His Tag, rat recombinant (rrAPO-J-His)

**Catalog No:** 94978  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** 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

### Background

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  $\alpha$ -helices and three predicted amphipathic  $\alpha$ -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.

### Description

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 rat APO-J and 25 additional amino acid residues – His Tag, T7-Tag.

### Physical Appearance

White lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from 0.5 mg/ml in 0.01 M Tris pH 7.2.

### Solubility

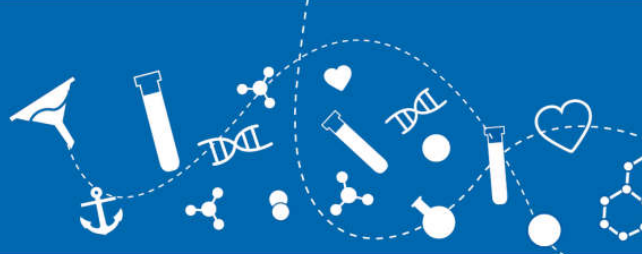
Add 0.2 ml of deionized H<sub>2</sub>O and let the lyophilized pellet dissolve completely.

### 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.

### Purity

Greater than 95% as determined by SDS PAGE.



### Amino Acid Sequence

MASMTGGQQM GRDPNSSSPF YFWMNGDRID SLLESDRQQS QVLDAMQDSF TRASGIIDTL FQDRFFTHEP QDIHHFSPMG  
FPHKRPHLLY PKSRLVRSLM PLSHYGPLSF HNMFPFFDM IHQAQQAMDV QLHSPALQFP DVDFLKEGED DRTVCKEIRH  
NSTGCLKMKG QCEKCQEILS VDCSTNNPAQ ANLRQELNDS LQVAERLTQQ YNELLHSLQS KMLNTSSLLE QALEHHHHHH

### Applications

WB\*ELISA

### Usage

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