

Recombinant Rat Clu, His-tagged

Cat. No. Clu-3664R Lot. No. (See product label)

SPECIFICATION

Product Overview	Total 240 AA. MW: 26.5 kDa (calculated). N-Terminal T7-Tag and C-Terminal His-tag, 25 extra AA (highlighted).
Species	Rat
Source	E.coli
Description	Clusterin is a 75-80 kDa disulfide-linked heterodimeric protein associated with the clearance of cellular debris and apoptosis. In humans, clusterin is encoded by the Clu gene.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.01M Tris pH 7.2.
Research topic	Animal studies; Others; Renal disease; Sepsis
Purity	>95%
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	ELISA, Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS-PAGE to determine purity of the protein

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Sequences of amino acids

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

Storage

Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name

Clu clusterin [*Rattus norvegicus*]

Official Symbol

Clu

Synonyms

Clu; clusterin; CLI; DAG; APOJ; SGP2; SP40; SGP-2; SP-40; Trpm2; Trpmb; TRPM-2; TRPM2B; RATTRPM2B; sulfated glycoprotein 2; dimeric acid glycoprotein; testosterone-repressed prostate message; testosterone-repressed prostate message 2; testosterone repressed prostate message 2

Gene ID

24854

mRNA Refseq

NM_053021

Protein Refseq

NP_444180

UniProt ID

P05371

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Chromosome Location	15p12
Pathway	Formation of Platelet plug; Hemostasis; Platelet Activation; Platelet degranulation; Response to elevated platelet cytosolic Ca ²⁺
Function	NOT ATPase activity; ATPase activity; misfolded protein binding; ubiquitin protein ligase binding; protein binding

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