For Research Use Only

Recombinant Rat Clusterin protein (rFc Tag)

www.ptgcn.com

Catalog Number: Eg9471

Basic Information

Species: Rat

Purity: >90 %, SDS-PAGE

Tag: rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Rat Clusterin protein Glu22-Glu447 (Accession# P05371) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
24854

Accession:
P05371

Predicted Molecular Mass:
74.7 kDa

SDS-PAGE:
27-33 kDa, 58-70 kDa and 85-95 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Clusterin (also known as apolipoprotein J) is a 75-80 kDa heterodimeric glycoprotein produced by a wide array of tissues and found in most biological fluids. It is encoded by one single gene and cleaved posttranslationally into α and β subunits prior to secretion from the cell. Many functions have been described for clusterin, including regulating apoptosis, transporting lipids, controlling cell interactions, and regulating complement. Increased plasma clusterin levels have been associated with the severity, pathology, and progression of Alzheimer's disease.

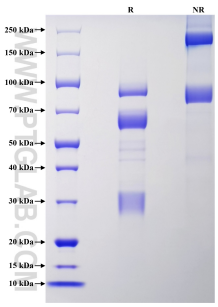
References

1. Rosenberg, M E, and J Silkensen. The international journal of biochemistry & cell biology vol. 27,7 (1995): 633-45
2. Wilson, M R, and S B Easterbrook-Smith. Trends in biochemical sciences vol. 25,3 (2000): 95-8.
3. Jones, Steve E, and Catherine Jomary. The international journal of biochemistry & cell biology vol. 34,5 (2002): 4
4. Thambisetty, Madhav et al. Archives of general psychiatry vol. 67,7 (2010): 739-48.
5. Schrijvers, Elisabeth M C et al. JAMA vol. 305,13 (2011): 1322-6.

Synonyms

Clu, Clusterin alpha chain, Clusterin beta chain, DAG, Dimeric acid glycoprotein

Selected Validation Data



Purity of Recombinant Rat Clusterin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.