

Recombinant Human Clusterin/ApoJ Protein (aa 1-501, His Tag)



Catalog Number:PKSH031163

Note: Centrifuge before opening to ensure complete recovery of vial contents.

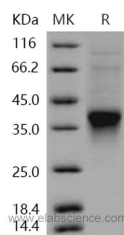
Description

Synonyms	Clusterin; Aging-Associated Gene 4 Protein; Apolipoprotein J; Apo-J; Complement Cytolysis Inhibitor; CLI; Complement-Associated Protein SP-40; Ku70-Binding Protein 1; NA1/NA2; Testosterone-Repressed Prostate Message 2; TRPM-2; CLU; APOJ; CLI; KUB1; AAG4; APO-J; CLU1; CLU2; NA1/NA2; SGP-2; SGP2; SP-40
Species	Human
Expression Host	HEK293 Cells
Sequence	Met1-Glu501
Accession	NP_001822.2
Calculated Molecular Weight	51.5 kDa
Observed molecular weight	37-39 kDa
Tag	C-His

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4
Reconstitution	Please refer to the printed manual for detailed information.

Data



Background

Clusterin, also known as complement-associated protein SP-40, Complement cytolysis inhibitor, Apolipoprotein J, Testosterone-repressed prostate message 2, Aging-associated gene 4 protein, CLU and APOJ, is a secreted protein which belongs to the clusterin family. Clusterin/Apolipoprotein J/Apo-J is an enigmatic glycoprotein with a nearly ubiquitous tissue distribution and an apparent involvement in biological processes ranging from mammary gland involution to neurodegeneration in Alzheimer's disease. Its major form, a heterodimer, is secreted and present in physiological fluids, but truncated forms targeted to the nucleus have also been identified. Clusterin/Apolipoprotein J/Apo-J is a widely distributed glycoprotein with a wide range of biologic properties. A prominent and defining feature of clusterin is its marked induction in such disease states as glomerulonephritis, cystic renal disease, renal tubular injury, neurodegenerative

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conditions, atherosclerosis, and myocardial infarction. Upregulation of clusterin mRNA and protein levels detected in diverse disease states and in in vitro systems have led to suggestions that it functions in membrane lipid recycling, in apoptotic cell death, and as a stress-induced secreted chaperone protein, amongst others.

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