

Apolipoprotein E/APOE Protein, Rabbit, Recombinant (His & Myc & SUMO)

General Information

Synonyms: APOE;Apo-E;Apolipoprotein E

Protein Construction: 20-311 aa

Species: Rabbit

Expression Host: E. coli

Accession: P18287

Molecular Weight: 53.6 kDa (predicted)

AA Sequence: TEQEVEVPEQARWKAGQPWELALGRFWDYLRWVQSLSDQVQEELLSSQVTQELTMLMEETMKEVKAYKSE
LEEQLSPMAQEHRARLSKELQVAGALEADMEDVCNRLAQYRGEAQAMLGQSTEELARAFSSHLRKLKRLL
RDAEDLQKRMAVYGAGAREGAERGVSAVRERLGSRLERGLRVATVGTLAGRPLRERAQAWGERLRGHLEE
VGSRRARDRLNEVREQVEEVVVKVEEQAPQMRLQAEAFQARLKSWEPLVEDMQRQWAGLVEKLQAAMPS
KAPAAPIENQ

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 90% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

APOE is an apolipoprotein, a protein associating with lipid particles, that mainly functions in lipoprotein-mediated lipid transport between organs via the plasma and interstitial fluids. APOE is a core component of plasma lipoproteins and is involved in their production, conversion and clearance. Apolipoproteins are amphipathic

molecules that interact both with lipids of the lipoprotein particle core and the aqueous environment of the plasma. As such, APOE associates with chylomicrons, chylomicron remnants, very low density lipoproteins (VLDL) and intermediate density lipoproteins (IDL) but shows a preferential binding to high-density lipoproteins (HDL). It also binds a wide range of cellular receptors including the LDL receptor/LDLR and the very low-density lipoprotein receptor/VLDLR that mediate the cellular uptake of the APOE-containing lipoprotein particles. Finally, APOE has also a heparin-binding activity and binds heparan-sulfate proteoglycans on the surface of cells, a property that supports the capture and the receptor-mediated uptake of APOE-containing lipoproteins by cells.

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