

Apolipoprotein A-I/APOA1 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75503
Synonyms:	Apolipoprotein L1; Apo-L; ApoL-I; APOL1; APOL
Species:	Mouse
Source:	HEK293
Accession:	Q00623 (W19-Q264)
Gene ID:	11806
Molecular Weight:	27-31 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	Apolipoprotein A-I (APOA1) Protein plays a pivotal role in the reverse transport of cholesterol, facilitating its efflux from tissues and functioning as a crucial cofactor for lecithin cholesterol acyltransferase (LCAT) to promote cholesterol excretion from tissues to the liver. This protein exists as a homodimer and is part of the sperm activating protein complex (SPAP), which includes APOA1, an immunoglobulin heavy chain, an immunoglobulin light chain, and albumin. APOA1 also interacts with APOA1BP and CLU, contributing to its diverse molecular associations. Additionally, it engages with NDRG1, SCGB3A2, NAXE, and YJEFN3, further highlighting its involvement in various cellular processes beyond cholesterol metabolism, including spermatozoa motility and protein complex interactions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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