

Apolipoprotein A-I/APOA1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P72832
Synonyms:	Apolipoprotein A-I; Apo-AI; ProapoA-I; APOA1
Species:	Human
Source:	HEK293
Accession:	P02647/CAA26097.1 (D25-Q267)
Gene ID:	335
Molecular Weight:	55-65 kDa

PROPERTIES

AA Sequence	<p> D E P P Q S P W D R V K D L A T V Y V D V L K D S G R D Y V S Q F E G S A L G K Q L N L K L L D N W D S V T S T F S K L R E Q L G P V T Q E F W D N L E K E T E G L R Q E M S K D L E E V K A K V Q P Y L D D F Q K K W Q E E M E L Y R Q K V E P L R A E L Q E G A R Q K L H E L Q E K L S P L G E E M R D R A R A H V D A L R T H L A P Y S D E L R Q R L A A R L E A L K E N G G A R L A E Y H A K A T E H L S T L S E K A K P A L E D L R Q G L L P V L E S F K V S F L S A L E E Y T K K L N T Q </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p> Apolipoprotein A-I plays a crucial role in the reverse transport of cholesterol by promoting cholesterol efflux from tissues and acting as a cofactor for lecithin cholesterol acyltransferase (LCAT). It also functions as part of the SPAP complex, activating spermatozoa motility. Apolipoprotein A-I forms homodimers and interacts with NAXE and CLU, while being a component of the SPAP complex, along with an immunoglobulin heavy chain, an immunoglobulin light chain, and albumin. Additionally, it interacts with NDRG1, SCGB3A2, and NAXE, as well as YJEFN3. </p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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