Apolipoprotein A-I/APOA1 Protein, Mouse (246a.a, HEK293, Fc)

Cat. No.:	HY-P72833
Synonyms:	Apolipoprotein A-I; Apo-AI; ProapoA-I; APOA1
Species:	Mouse
Source:	HEK293
Accession:	Q00623 (W19-Q264)
Gene ID:	11806
Molecular Weight:	Approximately 58 kDa

PROPERTIES

AA Sequence	W H V W Q Q D E P Q S Q W D K V K D F A N V Y V D A V K D S G R D Y V S Q F E S S S L G Q Q L N L N L L E N W D T L G S T V S Q L Q E R L G P L T R D F W D N L E K E T D W V R Q E M N K D L E E V K Q K V Q P Y L D E F Q K K W K E D V E L Y R Q K V A P L G A E L Q E S A R Q K L Q E L Q G R L S P V A E E F R D R M R T H V D S L R T Q L A P H S E Q M R E S L A Q R L A E L K S N P T L N E Y H T R A K T H L K T L G E K A R P A L E D L R H S L M P M L E T L K T Q V Q S V I D K A S E T L T A Q
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Recombinant Mouse Apolipoprotein A-I/ApoA1 at 5 μg/mL (100 μL/well) can bind Biotinylated Recombinant Human SR-AI/MSR. The ED_{50} for this effect is ≤781.5 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	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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