Apolipoprotein E/APOE Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P78239
Synonyms:	Apolipoprotein E; Apo-E; APOE; apolipo E
Species:	Mouse
Source:	HEK293
Accession:	P08226 (E19-Q311)
Gene ID:	11816
Molecular Weight:	62-66 kDa

PROPERTIES

AA Sequence	E G E P E V T D Q L E W Q S N Q P W E Q A L N R F W D Y L R W V Q T L S D Q V Q E E L Q S S Q V T Q E L T A L M E D T M T E V K A Y K K E L E E Q L G P V A E E T R A R L G K E V Q A A Q A R L G A D M E D L R N R L G Q Y R N E V H T M L G Q S T E E I R A R L S T H L R K M R K R L M R D A E D L Q K R L A V Y K A G A R E G A E R G V S A I R E R L G P L V E Q G R Q R T A N L G A G A A Q P L R D R A Q A F G D R I R G R L E E V G N Q A R D R L E E V R E H M E E V R S K M E E Q T Q Q I R L Q A E I F Q A R L K G W F E P I V E D M H R Q W A N L M E K I Q A S V A T N P I I T P V A Q E N Q
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution in 20 mM PB, 150 mM NaCl, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
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.
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	APOE is an apolipoprotein that plays a crucial role in lipid transport between organs through plasma and interstitial fluids. It is a key component of plasma lipoproteins and is involved in their production, conversion, and clearance. APOE interacts with various lipoprotein particles, including chylomicrons, chylomicron remnants, VLDL, and IDL, with a preference for HDL. Additionally, it binds to a range of cellular receptors, such as LDL receptor/LDLR and VLDL receptor/VLDLR, facilitating the

cellular uptake of APOE-containing lipoproteins. APOE also possesses heparin-binding activity and binds to heparan-sulfate proteoglycans on cell surfaces, supporting the capture and receptor-mediated uptake of APOE-containing lipoproteins. Notably, APOE forms a homotetramer and interacts functionally with ABCA1 in the biogenesis of HDLs. It may also interact with APP/A4 amyloid-beta peptide, MAPT, MAP2, and secreted SORL1 in the cerebrospinal fluid, as well as PMEL to induce fibril nucleation on intraluminal vesicles.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA