

Apolipoprotein E/APOE Protein, Rabbit (His-SUMO)

Cat. No.:	HY-P72083
Synonyms:	APOEApolipoprotein E; Apo-E
Species:	Rabbit
Source:	E. coli
Accession:	P18287 (T20-Q311)
Gene ID:	100009337
Molecular Weight:	Approximately 53.6 kDa

PROPERTIES

AA Sequence	<pre> TEQEVEVPEQ ARWKAGQPWE LALGRFWDYL RWVQSLSDQV QEELLSSQVT QELTMLMEET MKEVKAYKSE LEEQLSPMAQ EHRARLSKEL QVAGALEADM EDVCNRLAQY RGEAQAMLGQ STEELARAFS SHLRKLRKRL LRDAEDLQKR MAVYGAGARE GAERGVSAVR ERLGSRLE RG RLRVATVGT L AGRPLRERAQ AWGERLRGHL EEVGSRRARDR LNEVREQVEE VRVKVEEQAP QMRLQAEAFQ ARLKSWFEP L VEDMQRQWAG LVEKLQAAMP SKAPAAAPIE NQ </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
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>APOE is a protein that plays a crucial role in the transport of lipids between organs through plasma and interstitial fluids. It is a key component of various lipoproteins, including chylomicrons, VLDL, IDL, and HDL. APOE binds to a wide range of cellular receptors, such as LDLR and VLDLR, facilitating the uptake of lipoprotein particles. Additionally, APOE has a heparin-binding activity and interacts with heparan-sulfate proteoglycans on cell surfaces, supporting the capture and uptake of lipoproteins. It forms a homotetramer and can interact with ABCA1 in the formation of HDLs. APOE may also interact with</p>
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other proteins like APP/A4 amyloid-beta peptide, MAPT, MAP2, secreted SORL1, and PMEL for various physiological processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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