

## Apolipoprotein E/APOE Protein, Rabbit (His-B2M, Myc)

Cat. No.:	HY-P72084
Synonyms:	APOEApolipoprotein E; Apo-E
Species:	Rabbit
Source:	E. coli
Accession:	P18287 (T20-Q311)
Gene ID:	100009337
Molecular Weight:	Approximately 55 kDa

### PROPERTIES

AA Sequence	<p>TEQEVEVPEQ    ARWKAGQPWE    LALGRFWDYL    RWVQSLSDQV</p> <p>QEELLSQVT    QELTMLMEET    MKEVKAYKSE    LEEQLSPMAQ</p> <p>EHRARLSKEL    QVAGALEADM    EDVCNRLAQY    RGEAQAMLGQ</p> <p>STEELARAFS    SHLRKLRKRL    LRDAEDLQKR    MAVYGAGARE</p> <p>GAERGVSAVR    ERLGSRLEGR    RLRVATVGTL    AGRPLRERAQ</p> <p>AWGERLRGHL    EEVGSRRDR    LNEVREQVEE    VRVKVEEQAP</p> <p>QMRLQAEAFQ    ARLKSWFEP L    VEDMQRQWAG    LVEKLQAAMP</p> <p>SKAPAAPIE    NQ</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
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 <sub>2</sub> 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>
------------	---

---

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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA