

Recombinant Full Length Rat apolipoprotein E Protein, His tagged

Cat. No. APOE-726R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Rat apolipoprotein E Protein (1-312 aa) with His tag was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	1-312 aa
Description	Enables several functions, including amyloid-beta binding activity; hydroxyapatite binding activity; and phospholipid binding activity. Involved in several processes, including cellular response to alcohol; neurogenesis; and regulation of lipid metabolic process. Located in several cellular components, including endosome; microtubule; and neuronal cell body. Is extrinsic component of external side of plasma membrane. Part of several cellular components, including discoidal high-density lipoprotein particle; low-density lipoprotein particle; and triglyceride-rich plasma lipoprotein particle. Used to study artery disease (multiple); familial hyperlipidemia (multiple); glomerulosclerosis; middle cerebral artery infarction; and steatotic liver disease (multiple). Biomarker of several diseases, including glomerulonephritis (multiple); hyperhomocysteinemia; hypertension; sciatic neuropathy; and transient cerebral ischemia. Human ortholog(s) of this gene implicated in several diseases, including Alzheimer"s disease (multiple); artery disease (multiple); biliary tract cancer (multiple); eye disease (multiple); and familial hyperlipidemia (multiple). Orthologous to human

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	APOE (apolipoprotein E).
Molecular Mass	34 kDa
AA Sequence	EGELEVTDQLPGQSDQPWEQALNRFWDYLRWVQTLSDQVQEELQSSQVTQELTV LMEDTMTEVKAYKKELEEQLGPVAEETRARLAKEVQAAQARLGADMEDLRNRLGQ YRNEVNTMLGQSTEELRSRLSTHLRKMRLMRDADDLQKRLAVYKAGAQEGAER GVSAIRERLGPLVEQGRQRTANLGAGAAQPLRDRAQALSDRIRGRLEEVGNQARD RLEEVREQMEEVRSKMEEQTQQIRLQAEIFQARIKGWFEPLVEDMQRQWANLMEKI QASVATNSIASTTVPLENQHHHHH
Endotoxin	< 1 EU/μg by LAL.
Purity	> 90 % by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4
Concentration	1 mg/mL by BCA

GENE INFORMATION

Gene Name	Apoe apolipoprotein E [Rattus norvegicus (Norway rat)]
Official Symbol	APOE
Synonyms	APOE; apolipoprotein E; apo-E; APOEA;
Gene ID	25728

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mRNA Refseq	NM_138828
Protein Refseq	NP_620183
UniProt ID	P02650

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