

Recombinant Human ApoE3

CATALOG #:	4696-50	50 ug
	4696-500	500 ug
	4696-1000	1 mg
	4696-5000	5 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: >90% by SDS-PAGE and HPLC analyses
Endotoxin level is <0.1 ng per µg of ApoE3.

MOL. WEIGHT: 34.0 kDa

FORM: Sterile filtered and lyophilized from 20 mM Sodium Phosphate

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in 5 mM Sodium Phosphate pH 7.8 + 0.5 mM DTT to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized human ApoE3 is best-stored desiccated below 0°C. Reconstituted ApoE3 should be stored at working aliquots at -20°C.

DESCRIPTION:

ApoE belongs to a group of proteins that bind reversibly with lipoprotein and play an important role in lipid metabolism. In addition to facilitating solubilization of lipids, these proteins help to maintain the structural integrity of lipoproteins, serve as ligands for lipoprotein receptors, and regulate the activity of enzymes involved in lipid metabolism. Significant quantities of ApoE are produced in liver and brain and to some extent in almost every organ. ApoE is an important constituent of all plasma lipoproteins. It's interaction with specific ApoE receptor enables uptake of chylomicron remnants by liver cells, which is an essential step during normal lipid metabolism. ApoE exists in three major isoforms; E2, E3, and E4, which differ from one another by a single amino-acid substitution. E3 is the most common isoform and is present in 40-90% of the population. Recombinant human ApoE3 is a 34.0 kDa protein containing 299 amino acid residues. This protein has a N-terminal His-tag.

ApoE3 AMINO ACID SEQUENCE:

MKVEQAVETEPEPELRQQTTEWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVTQELRALMDETMKELKAYKS
ELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTELRVRVLASHLRKLRKLLRDADDL
QKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAGQPLQERAQAWGERLRARMEEEMGSRTRDRDLDEVK
EQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFPEPLVEDMQRQWAGLVEKVAAVGTSAAPVPSDNH



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