

TECHNICAL DATA SHEET

Recombinant Human ApoE3 (Carrier-Free)

Catalog Number: 21-9189

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human ApoE3 (Carrier-Free)

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 the liver and brain, and to some extent in almost every organ. ApoE is an important constituent of all plasma lipoproteins. Its interaction with specific ApoE receptor enables uptake of chylomicron remnants by liver cells, which is an essential step during normal lipid metabolism. It also binds with the LDL receptor (apo B/E).

MOLECULAR MASS

Recombinant Human ApoE3 is a 34.0 kDa protein containing 300 amino acid residues.

AMINO ACID SEQUENCE

MKVEQAVETE PEPELRQTE WQSGQRWELA LGRFWDYLRW VQTLSEQVQE ELLSSQVTQE LRALMDETMK ELKAYKSELE EQLTPVAEET
 RARLSKELQA AQARLGADME DVCGRVQYR GEVQAMLGQS TEELRVRLAS HLRKLRKRL RDADDLQKRL AVYQAGAREG AERGLSAIRE
 RLGPLVEQGR VRAATVGS LA GQPLQERAQA WGERLRARME EMGSRTRDRL DEVKEQVAEV RAKLEEQAQQ IRLQAEAFQA RLKSWFEPLV
 EDMQRQWAGL VEKVQAAVGT SAAPVPSDNH

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

90 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

N/A

BIOACTIVITY

Data not available at this time.

RESEARCH AREAS

Angiogenesis/Cardiovascular

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Chuang ST, Shon YS, Narayanaswami V. Int J Nanomedicine. 2017 Nov 27;12:8495-8510. doi: 10.2147/IJN.S145326. Badrnya S, Doherty T, Richardson C, McConnell RI, Lamont JV, Veitinger M, FitzGerald SP, Zellner M, Umlauf E. Clin Chem Lab Med. 2017 Dec 7. pii: /j/cclm.ahead-of-print/cclm-2017-0618/cclm-2017-0618.xml. doi: 10.1515/cclm-2017-0618.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.