ApoC3 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ApoC3, Recombinant Protein
Full Product Name	Recombinant Human ApoC3
Product Gene Name	ApoC3 recombinant protein
Product Synonym Names	APOC3; APO C3; Apo CIII; Apo-CIII; APOC 3; ApoC III; ApoC-III; APOC3; APOC3_HUMAN; ApoCIII; Apolipoprotein C III; Apolipoprotein C-III; Apolipoprotein C3; ApolipoproteinCIII; MGC150353
Host	E coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose, pH7.4
Purity/Purification	Greater than 90% as determined by SDS-PAGE
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year, the protein solution can be stored at 2-8 degree C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing 0.1% BSA (make sure BSA will NOT interfere with your experiment) and store in working aliquots at -20 degree C to -80 degree C for 6 months. Avoid repeated freeze/thaw cycle.
Molecular Weight	10,852 Da
Sequence Positions	21-99
Chromosome Location	Chromosome: 11; NC_000011.9 (116700624..116703787). Location: 11q23.3
OMIM	107720
3D Structure	ModBase 3D Structure for P02656
Species	Human
Tag	N-terminal His-IF2DI
Reconstitution	Centrifuge the vial prior to opening, reconstitute in sterile distilled water or buffer of interest to concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for ApoC3 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for ApoC3 recombinant protein	MBS7617261 is a recombinant protein targeting ApoC3. Also known as Recombinant Human ApoC3. Host: E coli.
Other Notes	Small volumes of ApoC3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ApoC3. It may not necessarily be applicable to this product.

NCBI GI #	4557323
NCBI GeneID	345
NCBI Accession #	NP_000031.1
UniProt Primary Accession #	P02656

UniProt Secondary Accession #	Q08E83; Q6Q786
UniProt Related Accession #	P02656
GenBank Nucleotide #	NM_000040.1
NCBI Official Full Name	apolipoprotein C-III
NCBI Official Synonym Full Names	apolipoprotein C-III
NCBI Official Symbol	APOC3
NCBI Official Synonym Symbols	HALP2; APOCIII
UniProt Protein Name	Apolipoprotein C-III
UniProt Synonym Protein Names	Apolipoprotein C3
Protein Family	Apolipoprotein
UniProt Gene Name	APOC3
UniProt Synonym Gene Names	Apo-CIII; ApoC-III
UniProt Entry Name	APOC3_HUMAN
NCBI Protein Information	apolipoprotein C-III; apo-CIII; apoC-III; apolipoprotein C3
NCBI Summary for ApoC3	Apolipoprotein C-III is a very low density lipoprotein (VLDL) protein. APOC3 inhibits lipoprotein lipase and hepatic lipase; it is thought to delay catabolism of triglyceride-rich particles. The APOA1, APOC3 and APOA4 genes are closely linked in both rat and human genomes. The A-I and A-IV genes are transcribed from the same strand, while the A-1 and C-III genes are convergently transcribed. An increase in apoC-III levels induces the development of hypertriglyceridemia. [provided by RefSeq, Jul 2008]
UniProt Comments for ApoC3	APOC3: Inhibits lipoprotein lipase and hepatic lipase and decreases the uptake of lymph chylomicrons by hepatic cells. This suggests that it delays the catabolism of triglyceride-rich particles. Defects in APOC3 are the cause of hyperalphalipoproteinemia type 2 (HALP2). HALP2 is a condition characterized by high levels of high density lipoprotein (HDL) and increased HDL cholesterol levels. Belongs to the apolipoprotein C3 family. Protein type: Secreted; Secreted, signal peptide; Lipid-binding Chromosomal Location of Human Ortholog: 11q23.3 Cellular Component: extracellular space; chylomicron; early endosome; extracellular region Molecular Function: lipase inhibitor activity; cholesterol binding; phospholipid binding; enzyme regulator activity Biological Process: response to drug; cholesterol metabolic process; response to peptide hormone stimulus; phototransduction, visible light; regulation of Cdc42 protein signal transduction; lipoprotein metabolic process; cholesterol efflux; G-protein coupled receptor protein signaling pathway; cholesterol homeostasis; triacylglycerol metabolic process; reverse cholesterol transport; negative regulation of lipid catabolic process; phospholipid efflux; lipoprotein transport; triacylglycerol catabolic process; negative regulation of lipoprotein lipase activity; negative regulation of receptor-mediated endocytosis; negative regulation of lipid metabolic process; retinoid metabolic process; inflammatory response; triacylglycerol mobilization; negative regulation of fatty acid biosynthetic process; response to nutrient Disease: Apolipoprotein C-iii Deficiency
Research Articles on ApoC3	**1.** Measurement of plasma ApoCIII may improve CAD prediction in the general population
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