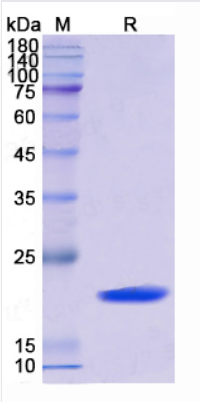
APOA5 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	APOA5, Recombinant Protein
Full Product Name	Recombinant Human APOA5, N-His
Product Gene Name	APOA5 recombinant protein
Product Synonym Names	APOA5; ApoA-V; RAP3; Regeneration-associated protein 3; Apo-AV; Apolipoprotein A-V; Apolipoprotein A5
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	41,213 Da
Sequence Positions	Asp167-Lys335
Chromosome Location	Chromosome: 11; NC_000011.9 (116660086..116663136, complement). Location: 11q23
OMIM	144650
3D Structure	ModBase 3D Structure for Q6Q788
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for APOA5 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for APOA5 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for APOA5 recombinant protein	MBS1574890 is a recombinant protein targeting APOA5. Also known as Recombinant Human APOA5, N-His. Host: E coli.
Other Notes	Small volumes of APOA5 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.



SDS-Page of APOA5 recombinant protein
SDS PAGE for recombinant Human APOA5 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOA5. It may not necessarily be applicable to this product.

NCBI GI #	262231737
NCBI GeneID	116519
NCBI Accession #	NP_001160070.1
UniProt Primary Accession #	Q6Q788
UniProt Secondary Accession #	Q3MIK6; Q6UWK9; Q9UBJ3; B0YIV9
UniProt Related Accession #	Q6Q788
GenBank Nucleotide #	NM_001166598.1
NCBI Official Full Name	apolipoprotein A-V
NCBI Official Synonym Full Names	apolipoprotein A-V
NCBI Official Symbol	APOA5
NCBI Official Synonym Symbols	RAP3; APOAV
UniProt Protein Name	Apolipoprotein A-V
UniProt Synonym Protein Names	Apolipoprotein A5; Regeneration-associated protein 3
Protein Family	Apolipoprotein
UniProt Gene Name	APOA5
UniProt Synonym Gene Names	RAP3; Apo-AV; ApoA-V
UniProt Entry Name	APOA5_HUMAN
NCBI Protein Information	apolipoprotein A-V; apo-AV; apolipoprotein A5; regeneration-associated protein 3
NCBI Summary for APOA5	The protein encoded by this gene is an apolipoprotein that plays an important role in regulating the plasma triglyceride levels, a major risk factor for coronary artery disease. It is a component of high density lipoprotein and is highly similar to a rat protein that is upregulated in response to liver injury. Mutations in this gene have been associated with hypertriglyceridemia and hyperlipoproteinemia type 5. This gene is located proximal to the apolipoprotein gene cluster on chromosome 11q23. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Oct 2009]

UniProt Comments for APOA5	APOA5: Minor apolipoprotein mainly associated with HDL and to a lesser extent with VLDL. May also be associated with chylomicrons. Important determinant of plasma triglyceride (TG) levels by both being a potent stimulator of apo-CII lipoprotein lipase (LPL) TG hydrolysis and a inhibitor of the hepatic VLDL-TG production rate (without affecting the VLDL-apoB production rate). Activates poorly lecithin:cholesterol acyltransferase (LCAT) and does not enhance efflux of cholesterol from macrophages. Interacts with GPIHBP1. Up-regulated by PPARA agonists, which are used clinically to lower serum TG (such as fibrates). Liver and plasma. Belongs to the apolipoprotein A1/A4/E family. Protein type: Lipid-binding; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 11q23 Cellular Component: extracellular space; chylomicron; extracellular region Molecular Function: heparin binding; enzyme binding; low-density lipoprotein receptor binding; cholesterol transporter activity; enzyme activator activity; cholesterol binding; phospholipid binding; phosphatidylcholine binding; lipid binding Biological Process: positive regulation of fatty acid biosynthetic process; organ regeneration; response to hormone stimulus; neurite regeneration; lipoprotein metabolic process; positive regulation of lipid catabolic process; cholesterol efflux; cellular lipid metabolic process; lipid transport; cholesterol biosynthetic process; positive regulation of receptor-mediated endocytosis; phosphatidylcholine metabolic process; cholesterol homeostasis; reverse cholesterol transport; triacylglycerol metabolic process; phospholipid efflux; regulation of cholesterol absorption; tissue regeneration; acylglycerol homeostasis; triacylglycerol catabolic process; positive regulation of lipoprotein lipase activity Disease: Hypertriglyceridemia, Familial; Hyperlipoproteinemia, Type V
Research Articles on APOA5	**1.** There are rare mutations of the APOA5 gene which can be associated with specific complex phenotypes and different types of hyperlipoproteinemia, which includes extremely high triglyceride levels with multiple organ pathology.
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