

Recombinant Human APOA5, Protein A-tagged

Cat. No. APOA5-26876TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length Human Apolipoprotein A V with C-Terminal DDDDK tag.
Species	Human
Source	HEK293
ProteinLength	343 amino acids
Description	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.
Conjugation	FLAG
Molecular Weight	40.100kDa inclusive of tags
Tissue specificity	Liver and plasma.
Form	Lyophilised: Add deionized water (200 µl) to prepare a working stock solution of 0.5 mg/mL

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Purity	by SDS-PAGE
Storage buffer	pH: 7.50 Constituents: 0.24% Tris, 0.29% Sodium chloride
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	RKGFWDYFSQ TSGDKGRVEQ IHQQKMAREP ATLKDSLEQD LNNMNKFLEK LRPLSGSEAP RLPQDPVGMR RQLQEELEEV KARLQPYMAE AHELVGWNLE GLRQQLKPYT MDLMEQVALR VQELQEQLRV VGEDTKAQLL GGVDEAWALL QGLQSRVVHH TGRFKELFHP YAESLVSGIG RHVQELHRSV APHAPASPAR LSRCVQVLSR KLTLKAKALH ARIQQNLDQL REELSRAFAG TGTEEGAGPD PQMLSEEVQR RLQAFRQDTY LQIAAFTRAI DQETEEVQQQ LAPPPPGHSA FAPEFQQTDS GKVLSKLQAR LDDLWEDITH SLHDQGHSHL GDPAAADYKD DDDK
Sequence Similarities	Belongs to the apolipoprotein A1/A4/E family.

GENE INFORMATION

Gene Name	APOA5 apolipoprotein A-V [Homo sapiens]
Official Symbol	APOA5
Synonyms	APOA5; apolipoprotein A-V; APOA V; RAP3;
Gene ID	116519
mRNA Refseq	NM_001166598
Protein Refseq	NP_001160070

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MIM	606368
Uniprot ID	Q6Q788
Chromosome Location	11q23
Pathway	Chylomicron-mediated lipid transport, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem;
Function	enzyme activator activity; enzyme binding; heparin binding; contributes_to heparin binding; lipase activator activity;

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