

Recombinant human APOA5, His-tagged

Cat. No. APOA5-2476H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human APOA5 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	APOA5 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	41.3kDa (366aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSRKGFWDY FSQTSGDKGR VEQIHQQKMA REPATLKDSL EQDLNNMNKF LEKLRPLSGS EAPRLPQDPVGMRRQLQEEL EEVKARLQPY MAEAHELVGW NLEGLRQQLK PYTMDLMEQV ALRVQELQEQ LRVVGEDTKA QLLGGVDEAW ALLQGLQSRV VHHTGRFKEL FHPYAESLVS GIGRHVQELH RSVAPHAPAS PARLSRCVQV LSRKLTLLKAK ALHARIQQNL DQLREELSRA FAGTGTEEGAGPDPQMLSEE VRQRLQAFRQ DTYLQIAAFT

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	RAIDQETEEV QQQLAPPPPG HSAFAPEFQQ TDSGKVL SKL QARLDDLWED ITHSLHDQGH SHLGDP
Purity	>85 % by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	APOA5 apolipoprotein A-V [Homo sapiens]
Official Symbol	APOA5
Synonyms	APOA5; apolipoprotein A-V; APOA V; RAP3; apo-AV; apolipoprotein A5; regeneration-associated protein 3; APOAV; FLJ97995; MGC126836; MGC126838;
Gene ID	116519
mRNA Refseq	NM_001166598
Protein Refseq	NP_001160070
MIM	606368
UniProt ID	Q6Q788

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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, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem;
Function	enzyme activator activity; enzyme binding; heparin binding; contributes_to heparin binding; lipase activator activity; lipid binding; lipoprotein lipase activator activity; lipoprotein particle receptor binding; low-density lipoprotein particle receptor b