

Recombinant Human APOA5, Flag-tagged

Cat. No. APOA5-103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOA5, fused with Flag-tag (11 extra AA) at C-terminal, was expressed in HEK293.
Species	Human
Source	HEK293
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.
Form	Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5
Molecular Mass	40.1 kDa (calculated)
AA Sequence	RKGFWDYFSQ TSGDKGRVEQ IHQQKMAREP ATLKDSLEQD LNNMKNKFLEK LRPLSGSEAP RLPQDPVGMR RQLQEELEE V KARLQPYMAE AHELVGWNLE GLRQQLKPYT MDLMEQVALR VQELQEQLRV VGEDTKAQLL GGVDEAWALL QGLQSRVVHH TGRFKELFHP YAESLVSGIG RHVQELHRSV APHAPASPAR LSRCVQVLSR KLTLKAKALH ARIQQNLDQL REELSRAFAG TGTEEGAGPD

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PQMLSEEVRQ RLQAFRQDTY LQIAAFTRAI DQETEEVQQQ LAPPPPGHSA
 FAPEFQQTDS GKVLSKLQAR LDDLWEDITH SLHDQGHSHL GDPAAADYKD
 DDDK

Endotoxin

<1.0>

Purity

Purity as determined by densitometric image analysis >70%

Applications

Cell culture and/or animal studies; ELISA; Western blotting

Quality Control Test

BCA to determine quantity of the protein. SDS PAGE to determine purity of the protein. LAL TEST to determine quantity of the endotoxin.

Notes

This product is intended for research use only.

Storage

Store lyophilized protein at -80°C . Lyophilized protein remains stable until the expiry date when stored at -80°C . Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Reconstitution

Add deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

GENE INFORMATION

Gene Name

APOA5 apolipoprotein A-V [Homo sapiens]

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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
Chromosome Location	11q23
Pathway	Chylomicron-mediated lipid transport; Fatty acid, triacylglycerol, and ketone body metabolism; PPAR signaling pathway
Function	enzyme activator activity; heparin binding; contributes_to heparin binding

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