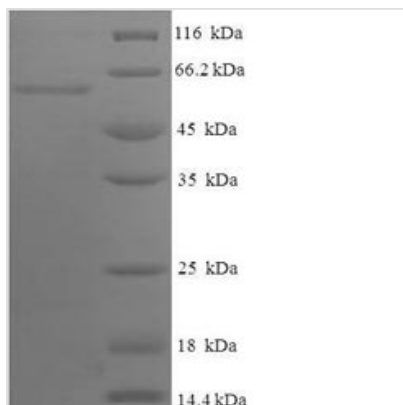




Recombinant Human Apolipoprotein A-IV (APOA4)

Product Code	CSB-EP001916HU
Relevance	May have a role in chylomicrons and VLDL secretion and catabolism. Required for efficient activation of lipoprotein lipase by ApoC-II; potent activator of LCAT. APOA-IV is a major component of HDL and chylomicrons.
Abbreviation	Recombinant Human APOA4 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P06727
Alias	Apolipoprotein A4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EVSADQVATVMWDYFSQLSNNAKEAVEHLQKSELTQQLNALFQDKLGEVNTY AGDLQKKLVFPFATELHERLAKDSEKLKEEIGKELEELRARLLPHANEVSQKIGD NLRELQQRLEPYADQLRTQVNTQAEQLRRQLTPYAQRMERVLRENADSLQAS LRPHADELKAKIDQNVVEELKGRLTPYADEFKVKIDQTVEELRRSLAPYAQDTQE KLNHQLEGLTFQMKNNAEELKARISASAEELRQRLAPLAEDVRGNLRGNTEGL QKSLAELGGHLDQQVEEFRRRVEPYGENFNKALVQQMEQLRQKLGPAGDV EGHLSFLEKDLRDKVNSFFSTFKEKESQDKTSLPELEQQQEQQQEQQQEQV QMLAPLES
Research Area	Cardiovascular
Source	E.coli
Target Names	APOA4
Expression Region	21-396aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	59.4kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 21-396 constitute the expression domain of recombinant Human APOA4. The expected molecular weight for the APOA4 protein is calculated to be 59.4 kDa. The APOA4 protein was expressed in e.coli. The N-terminal 6xHis-SUMO tag was fused into the coding gene segment of APOA4, making it easier to detect and purify the APOA4 recombinant protein in the later stages of expression and purification.

Apolipoprotein A-IV (APOA4) is a protein that has attracted a lot of interest in various research areas lately. In the study of lipid metabolism, researchers are mainly looking at how APOA4 impacts cholesterol and triglyceride levels. Studies show that APOA4 plays a vital role in transporting and absorbing cholesterol, crucial for maintaining a healthy balance of lipids in the body. What's especially interesting is the attention it's getting in research on metabolic and heart diseases. Its connection to issues like lipid disorders and atherosclerosis suggests it could be a useful marker and target for treatments.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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