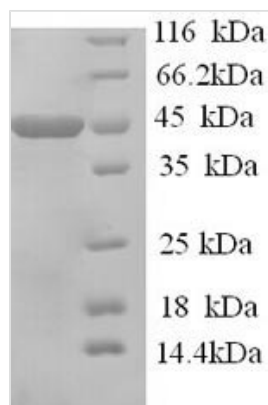




Recombinant Mouse Apolipoprotein A-IV (Apoa4)

Product Code	CSB-YP001916MO
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 Mouse 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.	P06728
Alias	Apolipoprotein A4
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	EVTSDQVANVWVDYFTQLSNNAKEAVEQFQKTDVTQQLSTLFQDKLGDASTY ADGVHNKLVPFVQLSGHLAQETERVKKEIKKELEDLRDRMMPHANKVTQTF GENMQKLQEHLKPYAVDLQDQINTQTQEMKLQLTPYIQRMQTTIKENVNLHT SMMPLATNLKDKFNRMEEELKGHLTPRANELKATIDQNLEDLRRSLAPLTVGV QEKLNHQMEGLAFQMKKNAEELQTKVSAKIDQLQKNLAPLVEDVQSKVKGNT EGLQKSLEDLNRQLEQQVEEFRRTVEPMGEMFNKALVQQLEQFRQQLGPN GEVESHLSFLEKSLREKVNSFMSTLEKKGSPDQPQALPLPEQAQEAQEAQ EQVQPKPLES
Research Area	Others
Source	Yeast
Target Names	ApoA4
Protein Names	Recommended name: Apolipoprotein A-IV Short name= Apo-AIV Short name= ApoA-IV Alternative name(s): Apolipoprotein A4
Expression Region	21-395aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	45.0kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

The synthesis of this Recombinant Mouse Apoa4 protein depends on the utilization of recombinant DNA technology to a large degree. DNA sequences that encoded the Apoa4 protein could be inserted into a vector and introduced into an expression host, Yeast, where it could be easily expressed in and purified from. The expression of this Apoa4 protein was at 21-395aa. N-terminal 6xHis tag was fused with this protein. The purity is 90%+ determined by SDS-PAGE.

Apoa4 is gene encoding a protein named apolipoprotein A-IV (Apoa4, Apo-AIV or ApoA-IV) or apolipoprotein A4. The protein encoded by this gene, a well-known short-term satiating protein, is highly present in by the gut and the brain in the presence of dietary lipids. Emerging evidence has reported that ApoA4 shows a S1P-binding property comparable to albumin, and ApoA4-bound S1P activated S1P receptors efficiently. ApoA4 can be a novel S1P carrier protein.

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

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.