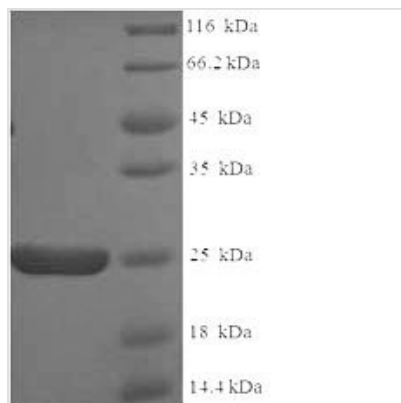




Recombinant Human Apolipoprotein C-II (APOC2)

Product Code	CSB-EP001932HU
Relevance	Component of chylomicrons, very low-density lipoproteins (VLDL), low-density lipoproteins (LDL), and high-density lipoproteins (HDL) in plasma. Plays an important role in lipoprotein metabolism as an activator of lipoprotein lipase. Both proapolipoprotein C-II and apolipoprotein C-II can activate lipoprotein lipase. In normolipidic individuals, it is mainly distributed in the HDL, whereas in hypertriglyceridic individuals, predominantly found in the VLDL and LDL.
Abbreviation	Recombinant Human APOC2 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.	P02655
Alias	Apolipoprotein C2
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	TQQPQQDEMPSPFTFLTQVKESLSSYWESAKTAAQNLYEKTYLPAVDEKLRDL YSKSTAAMSTYTGIFTDQVLSVLKGEE
Research Area	Metabolism
Source	E.coli
Target Names	APOC2
Expression Region	23-101aa
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	24.9kDa
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 gene coding for the Human APOC2 protein (23-101aa) is introduced into a plasmid vector, creating recombinant plasmid that is subsequently transformed into e.coli cells. e.coli cells capable of surviving in the presence of a specific antibiotic are selected and then cultured under conditions favorable for the expression of the gene of interest. A N-terminal 6xHis-SUMO tag is attached to the protein. Post-expression, the recombinant Human APOC2 protein is isolated and purified from the cell lysate using affinity purification. Denaturing SDS-PAGE is applied to resolve the resulting recombinant Human APOC2 protein, revealing a purity exceeding 90%.

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.