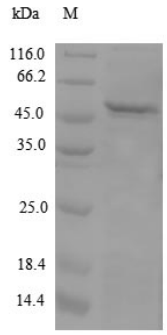
Recombinant Human Apolipoprotein M (APOM)

Product Code	CSB-EP001947HU
Relevance	Probably involved in lipid transport. Can bind sphingosine-1-phosphate, myristic acid, palmitic acid and stearic acid, retinol, all-trans-retinoic acid and 9-cis-retinoic acid.
Abbreviation	Recombinant Human APOM 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.	O95445
Alias	Protein G3a
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MFHQIWAALLYFYGIILNSIYQCPEHSQLTTLGVDGKEFPEVHLGQWYFIAGAA PTKEELATFDPVDNIVFNMAAGSAPMQLHLRATIRMKDGLCVPRKWIYHLTEG STDLRTEGRPDMKTELFSSSCPGGIMLNETGQGYQRFLLYNRSPHPPEKCVE EFKSLTSCLDSKAFLLTPRNQEACELSNN
Research Area	Signal Transduction
Source	E.coli
Target Names	APOM
Protein Names	Recommended name: Apolipoprotein M Short name= Apo-M Short name= ApoM Alternative name(s): Protein G3a
Expression Region	1-188aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-GST-tagged
Mol. Weight	49.8kDa
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 1-188 constitute the expression domain of recombinant Human APOM. The expected molecular weight for the APOM protein is calculated to be 49.8 kDa. This protein is generated in a e.coli-based system. The N-terminal 10xHis-GST tag was fused into the coding gene segment of APOM, making it easier to detect and purify the APOM recombinant protein in the later stages of expression and purification.

Apolipoprotein M (APOM) is a protein involved in lipid metabolism, with research spanning various fields. One of the most noteworthy areas is its role in cholesterol transport and metabolism. As part of high-density lipoprotein (HDL), APOM contributes to regulating the transport and metabolism of cholesterol, playing a crucial role in maintaining lipid balance. Some studies indicate that APOM is also involved in immune regulation and inflammatory processes. Its interaction with the immune system, particularly in the regulatory mechanisms of antimicrobial immunity, has become a forefront of research. Besides, APOM is associated with some chronic diseases such as diabetes and atherosclerosis, exerting a regulatory role in the pathogenesis of these conditions.

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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