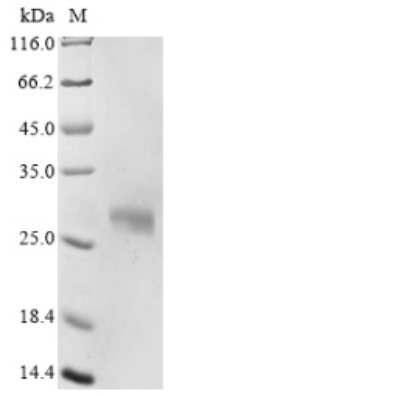
Recombinant Mouse Apolipoprotein D (Apod)

Product Code	CSB-EP001935MO
Abbreviation	Recombinant Mouse Apod 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.	P51910
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	QNFHLGKCPSPPVQENFDVKKYLGRWYEIEKIPASFEKGNCIQANYSLMENGN IEVLNKELSPDGTMNQVKGEAKQSNVSEPAKLEVQFFPLMPPAPYWILATDYE NYALVYSCTTFFWLFHVDFVWILGRNPYLPPETITYLKDILTSNGIDIEKMTTTD QANCPDFL
Research Area	Cancer
Source	E.coli
Target Names	Apod
Expression Region	21-189aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	26.9 kDa
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 21-189 form the expressed segment for recombinant Mouse Apod. This Apod protein is expected to have a theoretical molecular weight of 26.9 kDa. This Apod protein is produced using e.coli expression system. The Apod gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant Apod protein during the following stages. The mouse Apolipoprotein D (ApoD) is a glycoprotein primarily associated with lipoprotein particles in the bloodstream. It is a member of the lipocalin family and is involved in lipid metabolism and transport. ApoD plays a role in protecting cells from oxidative stress, neuroprotection, and modulation of inflammation. It has been linked to various physiological processes, including aging, neurodegenerative disorders, and cancer. In research, ApoD is studied to understand its functions in lipid homeostasis, and neuroprotection, and its potential implications in age-related diseases. Investigating ApoD's diverse roles contributes to our knowledge of lipid biology and its relevance to human health.
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.