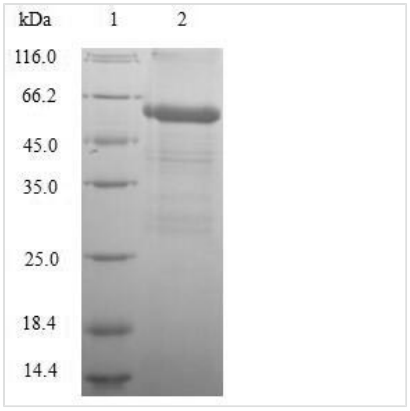
Recombinant Human Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial (DLAT), partial

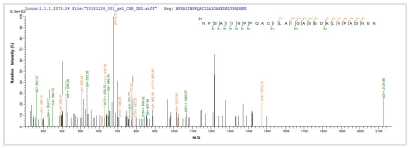
Product Code	CSB-EP006926HU
Relevance	The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO2, and thereby links the glycolytic pathway to the tricarboxylic cycle.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage 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.	P10515
Storage Buffer	Tris-based buffer,50% glycerol
Alias	70 kDa mitochondrial autoantigen of primary biliary cirrhosis ;PBCDihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complexM2 antigen complex 70 kDa subunitPyruvate dehydrogenase complex component E2 ;PDC-E2 ;PDCE2
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	KVPLPSLSPTMQAGTIARWEKKEGDKINEGDLIAEVETDKATVGFESLEECYM AKILVAEGTRDVPIGAIICITVGKPEDIEAFKNYTLDSSAAPTPQAAPAPTPAATA SPPTPSAQAPGSSYPPHMQVLLPALSPTMTMGTVQRWEKKVGEKLSEGDLLA EIETDKATIGFEVQEEGYLAKILVPEGTRDVPLGTPLCIIVEKEADISAFADYRPT EVTDLKPQVPPPTPPPVAAVPPTPQPLAPTPSAPCPATPAGPKGRVFVSPLAK KLAVEKGIDLTQVKGTGPDGRITKKDIDSFVPSKVAPAPAAVVPPTGPGMAPVP TGVFTDIPISNIRRVIAQRLMQSKQTIPHYYLSIDVNMGEVLLVRKELNKILEGRS KISVNDFIIKASALACLKVPEANSSWMDTVIRQNHVVDVSVAVSTPAGLITPIVF NAHIKGVETIANDVVSLATKAREGKLQPHEFQGGTFTISNLGMFGIKNFSAIINP PQACILAIGASEDKLVPADNEKGFDVASMMSVTLSCDHRVVDGAVGAQWLAE FRKYLE
Lead Time	3-7 business days
Research Area	Metabolism
Source	E.coli
Gene Names	DLAT
Expression Region	93-640aa

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	62.2kDa
Protein Description	Partial

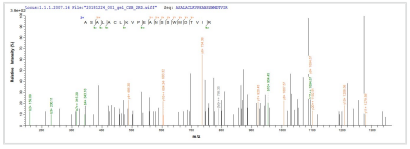
Image



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP006926HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) DLAT.



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Description

Advance your metabolism research with the Recombinant Human DLAT protein, a critical component of the pyruvate dehydrogenase complex. This mitochondrial enzyme plays a central role in the production of cellular energy, acting as the dihydrolipoyllysine-residue acetyltransferase, responsible for acetyl group transfer during the conversion of pyruvate to acetyl-CoA.

Our Recombinant Human DLAT protein is derived from E.coli and comprises the 93-640aa expression region, corresponding to a partial segment of the native protein. Featuring an N-terminal 6xHis tag, this protein is easily purified and detected, ensuring optimal performance in your experiments. With a purity greater than 90% as determined by SDS-PAGE, this protein delivers consistent results in various applications. Choose between liquid and lyophilized powder forms to best suit your research needs and experimental design.

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.