Recombinant Human Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial (DBT)

Product Code	CSB-EP006530HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P11182
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	GQVVQFKLS DIGEGIREVT VKEWYVKEGD TVSQFDSICE VQSDKASVTI TSRYDGVIKK LYYNLDDIAY VGKPLVDIET EALKDSEEDV VETPAVSHDE HTHQEIKGRK TLATPAVRRL AMENNIKLSE VVGSGKDGRI LKEDILNYLE KQTGAILPPS PKVEIMPPPP KPKDMTVPIL VSKPPVFTGK DKTEPIKGFQ KAMVKTMSAA LKIPHFGYCD EIDLTELVKL REELKPIAFA RGIKLSFMPF FLKAASLGLL QFPILNASVD ENCQNITYKA SHNIGIAMDT EQGLIVPNVK NVQICSIFDI ATELNRLQKL GSVGQLSTTD LTGGTFTLSN IGSIGGTFAK PVIMPPEVAI GALGSIKAIP RFNQKGEVYK AQIMNVSWSA DHRVIDGATM SRFSNLWKSY LENPAFMLLD LK
Source	E.coli
Target Names	DBT
Protein Names	Recommended name: Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial EC= 2.3.1.168 Alternative name(s): Branched-chain alpha-keto acid dehydrogenase complex component E2 Short name
Expression Region	62-482
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	The branched-chain alpha-keto acid dehydrogenase complex (BCKD) is an inner-mitochondrial enzyme complex involved in the breakdown of the branched-chain amino acids isoleucine, leucine, and valine. The BCKD complex is thought to be composed of a core of 24 transacylase (E2) subunits, and associated decarboxylase (E1), dehydrogenase (E3), and regulatory subunits. This gene encodes the transacylase (E2) subunit. Mutations in this gene result in maple syrup urine disease, type 2. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.
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.