



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

<b>Product Code</b>	CSB-BP006530HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P11182
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	GQVVQFKLS DIGEGIREVT VKEWYVKEGD TVSQFDSICE VQSDKASVTI TSRYDGVIKK LYNLDDIAY VGKPLVDIET EALKDSEEDV VETPAVSHDE HTHQEIKGRK TLATPAVRRL AMENNIKLS VVGSKDGRI LKEDILNYLE KQTGAILPPS PKVEIMPPPP KPKDMTPIL VSKPPVFTGK DKTEPIKGFQ KAMVKTMSAA LKIPHFGYCD EIDLTELVKL REELKPIAFA RGIKLSFMPF FLKAASLGLL QFPILNASVD ENCQNITYKA SHNIGIAMDT EQGLIVPNVK NVQICSIFDI ATELNRLQKL GSVGQLSTTD LTGGTFTLSN IGSIGGTFAK PVIMPPEVAI GALGSIKAIK RFNQKGEVYK AQIMNVSWSA DHRVIDGATM SRFSNLWKS Y LENPAFMLLD LK
<b>Source</b>	Baculovirus
<b>Target Names</b>	DBT
<b>Protein Names</b>	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
<b>Expression Region</b>	62-482
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	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.