

Recombinant Full Length Human DBT Protein, GST-tagged

Cat. No. DBT-2712HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DBT full-length ORF (BAG36008.1, 1 a.a. - 482 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	482 amino acids
Description	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. [provided by RefSeq, Jul 2008]
Molecular Mass	79.9 kDa
AA Sequence	MAAVRMLRTWSRNAGKLCVRYFQTCGNVHVLKPNYVCFFGYPSFKYSHPHHFLKT TAALRGQVVQFKLSDIGEGIREVTVKEWYVKEGDTV SQFDSICEVQSDKASVTITSR YDGVIKKLYYNLDDIAYVGKPLVDIETEALKDSEEDVVETPAVSHDEHTHQEIKGRKT LATPAVRRRLAMENNIKLSSEVVGSGKDGRILKEDILNYLEKQTGAILPPSPKVEIMPPPP KPKDMTVPILVSKPPVFTGKDKTEPIKGFQKAMVKTMSAALKIPHFGYCDEIDLTELV

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KLREELKPIAFARGIKLSFMPFFLKAASLGLLQFPILNASVDENCQNITYKASHNIGIAM
DTEQGLIVPNVKNVQICSIFDIATELNRLQKLGSVGQLSTTDLTGGTFTLSNIGSIGGT
FAKPVIMPPEVAIGALGSIKAIPRFNQKGEVYKAQIMNVSWSadHRVIDGATMSRFSN
LWKSYLENPAFMLLDLK

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name DBT dihydrolipoamide branched chain transacylase E2 [Homo sapiens]

Official Symbol DBT

Synonyms DBT; dihydrolipoamide branched chain transacylase E2; dihydrolipoamide branched chain transacylase (E2 component of branched chain keto acid dehydrogenase complex; maple syrup urine disease); lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial; BCKADE2; BCKAD-E2; BCKAD E2 subunit; dihydrolipoyl transacylase; branched chain acyltransferase, E2 component; dihydrolipoyllysine-residue (2-methylpropanoyl)transferase; branched-chain alpha-keto acid dehydrogenase complex component E2; E2 component of branched chain alpha-keto acid dehydrogenase complex; mitochondrial branched chain alpha-keto acid

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dehydrogenase transacylase subunit (E2b); dihydrolipoamide acetyltransferase component of branched-chain alpha-keto acid dehydrogenase complex; lipoamide acyltransferase component of mitochondrial branched-chain alpha-keto acid dehydrogenase complex; E2; E2B; BCATE2; MGC9061;

Gene ID 1629

mRNA Refseq NM_001918

Protein Refseq NP_001909

MIM 248610

UniProt ID P11182

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