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# Product datasheet for TP301998

## DBT (NM_001918) Human Recombinant Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Recombinant protein of human dihydrolipoamide branched chain transacylase E2 (DBT), nuclear gene encoding mitochondrial protein |
| **Species:** | Human |
| **Expression Host:** | HEK293T |
| **Tag:** | C-Myc/DDK |
| **Predicted MW:** | 46.4 kDa |
| **Concentration:** | >50 ug/mL as determined by microplate BCA method |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Buffer:** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol |
| **Preparation:** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Storage:** | Store at -80°C. |
| **Stability:** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **RefSeq:** | NP_001909 |
| **Locus ID:** | 1629 |
| **RefSeq Size:** | 10831 |
| **Cytogenetics:** | 1p21.2 |
| **RefSeq ORF:** | 1446 |
| **Synonyms:** | BCATE2; BCKAD-E2; BCKADE2; BCKDH-E2; BCOADC-E2; E2; E2B |

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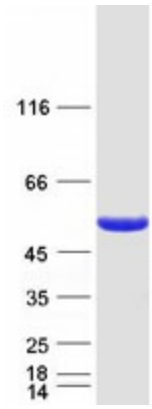
**Summary:** The branched-chain alpha-keto acid dehydrogenase complex (BCKD) is an inner-mitochondrial enzyme complex involved in the breakdown of the branched-chain amino acids isoleucine, leucine, and valine. The BCKD complex is thought to be composed of a core of 24 transacylase (E2) subunits, and 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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Valine, leucine and isoleucine degradation

## Product images:




Coomassie blue staining of purified DBT protein (Cat# TP301998). The protein was produced from HEK293T cells transfected with DBT cDNA clone (Cat# [RC201998]) using MegaTran 2.0 (Cat# [TT210002]).