

## Product datasheet for PH301998

### DBT (NM\_001918) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DBT MS Standard C13 and N15-labeled recombinant protein (NP_001909)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201998
Predicted MW:	53.5 kDa
Protein Sequence:	>RC201998 protein sequence Red=Cloning site Green=Tags(s)
	MAAVRMLRTWSRNAGKLICVRYFQTCGNVHVLKPNYVCFGGYPSFKYSHPHFLKTTAALRGQVVQFKLS DIGEGIREVTVKEWYVKEGDTV SQFDSICEVQSDKASVTITSRYDGVIKKLYNLDIAAYGKPLVDIET EALKDSEEDVVETPAVSHDEHTHQEIKGRKTLATPAVRRLAMENNIKLSSEVVGSGKDGRILKEDILNYLE KQTGAILPPSPKVEIMPPPKPKDMTPVILVSKPPVFTGKDKTEPIKGFQKAMVKTMSAALKIPHFGYCD EIDLTELVKLREELKPIAFARGIKLSFMPFFLKAASLGLLQFPILNASVDENCQNITYKASHNIGIAMDT EQGLIVPNVKNVQICSI FDIATELNRLQKLGSVGQLSTDLTGGTFTLSNIGSIGGTFKPKVIMPPEVAI GALGSIKAI PRFNQKGEVYKAQIMNVSW SADHRVIDGATMSRFSNLWKSYLENPAFMLLDLK
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001909</a>
RefSeq Size:	10831
RefSeq ORF:	1446
Synonyms:	BCATE2; BCKAD-E2; BCKADE2; BCKDH-E2; BCOADC-E2; E2; E2B



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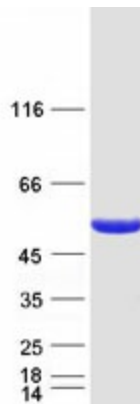
Locus ID: 1629  
UniProt ID: [P11182](#)  
Cytogenetics: 1p21.2

**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]).