

## Product datasheet for **TP507721**

### Dbt (NM\_010022) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse dihydrolipoamide branched chain transacylase E2 (Dbt), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207721 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAAARVLRWTSQNAVRLTCVRYFQTFNSARVLKPKCVCSVGYPLFKYSQPRHSLRRTAAVLQGQWVQFKLS  
DIGEGIREVTIKEWYVKEGDTVVSQFDSICEVQSDKASVTITSRYDGIKRLYYNLLDDIAYVGKPLIDIET  
EALKDSEEDVVETPAVSHDEHTHQEIKGQKTLATPAVRRLAMENNIKLSSEVVGSGKDGRILKEDILSFLE  
KQTGAILPPSPKSEITPPPPQPKDRTFPTPIAKPPVFTGKDRTEPVTGFQKAMVKTMMSAALKIPHFGYCD  
EIDLTQLVKLREELKPVALARGIKLSFMPFFLKAASLGLLQFPILNASVDENCQNITYKASHNIGIAMDT  
ELGLIVPNVKNVQVRSVFEIAMELNRLQKLGSSGQLGTTDLTGGTFTLSNIGSIGGTYAKPVILPPEVAI  
GALGAIKALPRFDQKGDVYKAQIMNVSWADHRVIDGATMSRFSNLWKSYLENPAFMLLDLK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-MYC/DDK
Predicted MW:	53.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
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:	<a href="#">NP_034152</a>
Locus ID:	13171



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UniProt ID: [P53395](#)

RefSeq Size: 3292

Cytogenetics: 3 50.37 cM

RefSeq ORF: 1449

Synonyms: BCKAD-E2; D3Wsu60e

**Summary:** The branched-chain alpha-keto dehydrogenase complex catalyzes the overall conversion of alpha-keto acids to acyl-CoA and CO<sub>2</sub>. It contains multiple copies of three enzymatic components: branched-chain alpha-keto acid decarboxylase (E1), lipoamide acyltransferase (E2) and lipoamide dehydrogenase (E3). Within this complex, the catalytic function of this enzyme is to accept, and to transfer to coenzyme A, acyl groups that are generated by the branched-chain alpha-keto acid decarboxylase component.[UniProtKB/Swiss-Prot Function]