

Product datasheet for **TP308059M**

BCKDHB (NM_183050) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human branched chain keto acid dehydrogenase E1, beta polypeptide (BCKDHB), nuclear gene encoding mitochondrial protein, transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC208059 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MAVVAAGWLLRLRAAGAEGHWRRLLPGAGLARGFLHPAATVEDAAQRRQVAHFTFQPDPEPREYGQTQK
MNLFQSVTSALDNSLAKDPTAVIFGEDVAFGGVFRCTVGLRDYKDKRVFNTPLCEQGIVGFGIGIAVTG
ATAIAEIQFADYIFPAFDQIVNEAAKYRYSGLDFNCGSLTIRSPWGCVGHGALYHSQSPEAFFAHCPGI
KVVIPRSPFQAKGLLSIEDKNPCIFFEPKILYRAAAEEVPIEPYNIPLSQAEVIQEGSDVTLVAWGTQ
VHVIREVASMKEKLGVSCEVIDLRTIIPWDVDTICKSVIKTGRLISHEAPLTGGFASEISSTVQEECF
LNLEAPISRVCYDTPFPHIFEPFIPDKWKCYDALRKMINY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	37.8 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
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:	<u>NP_898871</u>



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Locus ID: 594

UniProt ID: [P21953](#), [A0A140VKB3](#)

RefSeq Size: 3712

Cytogenetics: 6q14.1

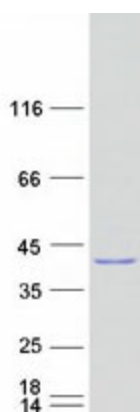
RefSeq ORF: 1176

Synonyms: BCKDE1B; BCKDH E1-beta; E1B

Summary: This gene encodes the E1 beta subunit of branched-chain keto acid dehydrogenase, which is a multienzyme complex associated with the inner membrane of mitochondria. This enzyme complex functions in the catabolism of branched-chain amino acids. Mutations in this gene have been associated with maple syrup urine disease (MSUD), type 1B, a disease characterized by a maple syrup odor to the urine in addition to mental and physical retardation and feeding problems. Alternative splicing at this locus results in multiple transcript variants. [provided by RefSeq, Jan 2016]

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

Product images:



Coomassie blue staining of purified BCKDHB protein (Cat# [TP308059]). The protein was produced from HEK293T cells transfected with BCKDHB cDNA clone (Cat# [RC208059]) using MegaTran 2.0 (Cat# [TT210002]).