

Product datasheet for PH308059

BCKDHB (NM_183050) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	BCKDHB MS Standard C13 and N15-labeled recombinant protein (NP_898871)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208059
Predicted MW:	43.1 kDa
Protein Sequence:	>RC208059 protein sequence Red=Cloning site Green=Tags(s)

MAVVAAAAGWLLRLRAAGAEGHWRLPGAGLARGFLHPAATVEDAAQRRQVAHFTFQPDPEPREYGTQK
MNLFQSVTSALDNSLAKDPTAVIFGEDVAFGGVFRCTVGLRDKYKDRVFNTPLCEQIGVGFIGIAVTG
ATAIAEIQFADYIFPAFDQIVNEAAKYRYSGLDFNCGSLTIRSPWGCVGHGALYHSQSPEAFFAHCPGI
KVVIPRSPFQAKGLLLSCIEDKNPCIFFEPKILYRAAAEEVPIEPYNIPLSQAQVIEQEGSDVTLVAWGTV
VHVIREVASMAGEKLGVSCEVIDLRTIIPWDVDTICKSVIKTGRLLISHEAPLTGGFAISESSTVQEECF
LNLEAPISRVCGYDTPFPPIFEPFYIPDKWKCYDALRKMINY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	<u>NP_898871</u>
RefSeq Size:	3712
RefSeq ORF:	1176
Synonyms:	BCKDE1B; BCKDH E1-beta; E1B
Locus ID:	594



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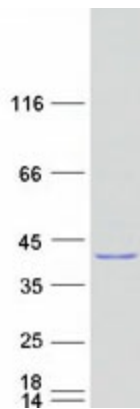
UniProt ID: [P21953](#), [A0A140VKB3](#)

Cytogenetics: 6q14.1

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]).