Full-Length

DBT (Human) Recombinant Protein (P01)

Catalog # H00001629-P01 Size 50 ug

Specification

Product Description	Human DBT full-length ORF (BAG36008.1, 1 a.a. - 482 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAAVRMLRTWSRNAGKLICVRYFQTCGNVHVLKPNYVCFFGYPSFKYSHPHHFLKTTAALRGQV VQFKLSDIGEGIREVTVKEWYVKEGDTVSQFDSICEVQSDKASVTITSRYDGVIKKLYYNLDDIAYV GKPLVDIETEALKDSEEDVVETPAVSHDEHTHQEIKGRKTLATPAVRRLAMENNIKLSEVVGSGK DGRILKEDILNYLEKQTGAILPPSPKVEIMPPPPKPKDMTVPILVSKPPVFTGKDKTEPIKGFQKAM VKTMSAALKIPHFGYCDEIDLTELVKLREELKPIAFARGIKLSFMPFFLKAASLGLLQFPILNASVDE NCQNITYKASHNIGIAMDTEQGLIVPNVKNVQICSIFDIATELNRLQKLGSVGQLSTTDLTGGTFTLSNI GSIGGTFAKPVIMPPEVAIGALGSIKAIPRFNQKGEVYKAQIMNVSWSADHRVIDGATMSRFSNLW KSYLENPAFMLLDLK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	79.9
Interspecies Antigen Sequence	Mouse (88); Rat (88)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)

- Antibody Production
- Protein Array

Gene Info — DBT

Entrez GeneID	1629
GeneBank Accession#	AK313191.1
Protein Accession#	BAG36008.1
Gene Name	DBT
Gene Alias	BCATE2, E2, E2B, MGC9061
Gene Description	dihydrolipoamide branched chain transacylase E2
Omim ID	248600 248610
Gene Ontology	Hyperlink
Gene 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
Other Designations	BCKAD E2 subunit|E2 component of branched chain alpha-keto acid dehydrogenase complex|OTTHUMP00000012596|branched chain acyltransferase, E2 component|dihydrolipoamide branched chain transacylase|dihydrolipoyl transacylase|dihydrolipoyllysine-residue (2-me

Pathway

- Metabolic pathways
- Valine