Recombinant Full Length Human BCKDHA Protein, GST-tagged

Cat. No. BCKDHA-1630HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BCKDHA full-length ORF (AAH07878.1, 1 a.a. - 445 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	445 amino acids
Description	The branched-chain alpha-keto acid (BCAA) dehydrogenase (BCKD) complex is an innter mitochondrial enzyme complex that catalyzes the second major step in the catabolism of the branched-chain amino acids leucine, isoleucine, and valine. The BCKD complex consists of three catalytic components: a heterotetrameric (alpha2-beta2) branched-chain alpha-keto acid decarboxylase (E1), a dihydrolipoyl transacylase (E2), and a dihydrolipoamide dehydrogenase (E3). This gene encodes the alpha subunit of the decarboxylase (E1) component. Mutations in this gene result in maple syrup urine disease, type IA. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	74.69 kDa
AA Sequence	MAVAIAAARV WRLNRGLSQA ALLLLRQPGA RGLARSHPPR QQQQFSSLDD

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	KPQFPGASAE FIDKLEFIQP NVISGIPIYR VMDRQGQIIN PSEDPHLPKE KVLKLYKSMT LLNTMDRILY ESQRQGRISF YMTNYGEEGT HVGSAAALDN TDLVFGQYRE AGVLMYRDYP LELFMAQCYG NISDLGKGRQ MPVHYGCKER HFVTISSPLA TQIPQAVGAA YAAKRANANR VVICYFGEGA ASEGDAHAGF NFAATLECPI IFFCRNNGYA ISTPTSEQYR GDGIAARGPG YGIMSIRVDG NDVFAVYNAT KEARRRAVAE NQPFLIEAMT YRIGHHSTSD DSSAYRSVDE VNYWDKQDHP ISRLRHYLLS QGWWDEEQEK AWRKQSRRKV MEAFEQAERK PKPNPNLLFS DVYQEMPAQL RKQQESLARH LQTYGEHYPL DHFDK
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	BCKDHA branched chain keto acid dehydrogenase E1, alpha polypeptide [Homo sapiens]
Official Symbol	BCKDHA
Synonyms	BCKDHA; branched chain keto acid dehydrogenase E1, alpha polypeptide; 2 oxoisovalerate dehydrogenase (lipoamide) , branched chain keto acid dehydrogenase E1, alpha polypeptide (maple syrup urine disease) , OVD1A; 2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial; maple syrup urine disease; MSU; BCKDH E1-alpha; 2-oxoisovalerate dehydrogenase (lipoamide); branched-chain alpha-keto acid dehydrogenase E1 component alpha chain; MSUD1; OVD1A; BCKDE1A; FLJ45695
Gene ID	593
mRNA Refseq	NM_000709

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_000700
MIM	608348
UniProt ID	P12694

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA