

Branched Chain keto Acid Dehydrogenase E1 Recombinant Protein | BCKDHA recombinant protein

Recombinant Human Branched Chain keto Acid Dehydrogenase E1, Alpha

CATALOG # AAA38996	HOST E Coli
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PRODUCT SYNONYMS

Branched Chain keto Acid Dehydrogenase E1; Recombinant Human Branched Chain keto Acid Dehydrogenase E1; Alpha; BCKDHA Human; Branched Chain keto Acid Dehydrogenase E1 Alpha Human Recombinant; 2-oxoisovalerate dehydrogenase subunit alpha mitochondrial; Branched-chain alpha-keto acid dehydrogenase E1 component alpha chain; BCKDE1A; BCKDH E1-alpha; BCKDHA; MSU; MSUD1; OVD1A; FLJ45695; BCKDHA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 80.0% as determined by SDS-PAGE.
Form/Format	The BCKDHA solution (0.25 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 5mM DTT, 30% glycerol and 0.2M NaCl.
Sequence	MGSSHHH HHHSSGLVPR GSHMSS LDDKPQFPGA SAEFIDKLEF IQPNVISGIP IYRVMDRQGQ IINPSEDPHL PKEKVLKLYK SMTLLNTMDR ILYESQRQGR ISFYMTNYGE EGVHVGSAAL LDNTDLVFGQ YREAGVLMYR DYPLELFMAQ CYGNISDLGK GRQMPVHYGC KERHFVTISS PLATQIPQAV GAAYAANKRAN ANRVVICYFG EGAASEGDAH AGFNFAATLE CPIIFFCRNN GYAISTPTSE QYRGDGAAR GPGYGIMSIR VDGNDVFAVY NATKEARRRA VAENQPFLIE AMTYRIGHHS TSDDSSAYRS VDEVNYWDKQ DHPISRLRHY LLSQGWWDDEE QEKAWRKQSR RKMVEAFEQA ERKPKPNPNL LFSVDYQEMP AQLRKQCESL ARHLQTYGEH YPLDHFDDK
Sequence Length	445
Physical Appearance	Sterile Filtered colorless solution.
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for BCKDHA recombinant protein	Description: BCKDHA Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated, polypeptide chain containing 421 amino acids (46-445 a.a.) and having a molecular mass of 47.8kDa. The BCKDHA is purified by proprietary chromatographic techniques. Introduction: Branched-chain alpha-keto acid dehydrogenase E1 component alpha chain (BCKDHA) is a member of the BCKDHA family. The BCKD (branched-chain alpha-keto acid dehydrogenase) complex is an inner mitochondrial enzyme complex which catalyzes the second major step in the catabolism of the branched-chain amino acids leucine, isoleucine, and valine. This complex consists of 3 catalytic components: a heterotetrameric (alpha2-beta2) branched-chain alpha-keto acid decarboxylase (E1), a dihydrolipoyl transacylase (E2), and a dihydrolipoamide dehydrogenase (E3). Mutations in the BCKDHA gene result in maple syrup urine disease, type 1A.
Product Categories/Family for BCKDHA recombinant protein	Enzymes; Dehydrogenase

NCBI AND UNIPROT INFORMATION

NCBI GI #	11386135
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NCBI GeneID	593
NCBI Accession #	NP_000700.1
NCBI GenBank Nucleotide #	NM_000709.3
UniProt Accession #	P12694; Q16034; Q16472; B4DP47; E7EW46
Molecular Weight	50,790 Da
NCBI Official Full Name	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial isoform 1
NCBI Official Synonym Full Names	branched chain keto acid dehydrogenase E1, alpha polypeptide
NCBI Official Symbol	BCKDHA
NCBI Official Synonym Symbols	MSU; MSUD1; OVD1A; BCKDE1A
NCBI Protein Information	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial; 2-oxoisovalerate dehydrogenase (lipoamide); BCKDH E1-alpha; branched-chain alpha-keto acid dehydrogenase E1 component alpha chain
UniProt Protein Name	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial
UniProt Gene Name	BCKDHA
UniProt Synonym Gene Names	BCKDE1A; BCKDH E1-alpha
UniProt Entry Name	ODBA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/bckdha-recombinant-protein-e-coli/38996>