

Recombinant Human Branched Chain Amino-Acid Transaminase 2, Mitochondrial, His-tagged

Cat. No. BCAT2-1962H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BCAT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	BCAT2 belongs to the class-IV pyridoxal-phosphate-dependent aminotransferase family. This protein forms a dimer that catalyzes the first step in the production of the branched chain amino acids leucine, isoleucine, and valine. It may also function as a transporter of branched chain alpha-keto acids.
Form	Liquid. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol 0.2M NaCl, 1mM DTT.
Molecular Weight	43.9 kDa(390aa), confirmed by MALDI-TOF.
Purity	> 90% by SDS -PAGE.
Concentration	0.5mg/ml (determined by Bradford assay).
Sequences of amino acids	MGSSHHHHHSSGLVPRGSH MGSMASSSF KAADLQLEMT QKPHKKPGPG EPLVFGKTFT DHMLMVEWND KGWGQPRIQPFQNLTLHPAS SSLHYSLQLF EGMKAFKGD QQVRLFRPWL NMDRMLRSAM RLCLPSFDKL ELLECI RRLIEVDKDW PDA AGTSLYVRPV LIGNEPSLGV SQPTRALLFV

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ILCPVGAYFP GGSVTPVSLI ADPAFIRAWVGGVGNKLGK NYGPTVLVQQ
 EALKRGCEQV LWLYGPDHQL TEVGTMNIFVYWTHEDGVLE
 LVTPLNGVILPGVVRQSLL DMAQTWGEFR VVERTITMKQ LLRALEEGRV
 REVFGSGTAC QVCPVHRILY KDRNLHIPTMENGPELILRF QKELKEIQYG
 IRAHEWMFPV

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

OfficialSymbol

BCAT2

GENE INFORMATION
Gene Name

BCAT2 branched chain amino-acidtransaminase 2, mitochondrial [Homo sapiens]

Synonyms

BCAT2; branchedchain amino-acid transaminase 2, mitochondrial; BCAM; BCT2; PP18;BCATM; branched-chain-amino-acid aminotransferase, mitochondrial; placentalprotein 18; branched chain aminotransferase 2, mitochondrial

Gene ID

587

mRNA Refseq

NM_001190

Protein Refseq

NP_001181

MIM

113530

UniProt ID

O15382

**Chromosome
Location**

19

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pathway Branched-chain amino acid catabolism; Leucine degradation; Metabolic pathways; Metabolism; Metabolism of amino acids and derivatives; Pantothenate and CoA biosynthesis; Valine

Function L-isoleucine transaminase activity; L-leucine transaminase activity; L-valine transaminase activity; branched-chain-amino-acid transaminase activity; transferase activity

Rendering based on
PDB 2PET.

