

Recombinant human BCAT2 protein

Catalog Number: ATGP1523

PRODUCT INFORMATION

Expression system

E.coli

Domain

28-392aa

UniProt No.

O15382

NCBI Accession No.

NP_001181

Alternative Names

Branched chain amino-acid aminotransferase 2 mitochondrial, Branched chain amino-acid aminotransferase 2, mitochondrial, BCAM, BCATM, BCT2, PP18, ECA40, Placental protein 18

PRODUCT SPECIFICATION

Molecular Weight

43.9 kDa (390aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol 0.2M NaCl, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human BCAT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSHM>ASSSF KAADLQLEMT QKPHKKPGPG EPLVFGKTFT DHMLMVEWND
KGWGPRIQP FQNLTLHPAS SSLHYSLQLF EGMKAFKGD QQVRLFRPWL NMDRMLRSAM RLCLPSFDKL ELLECIRRLI
EVDKDWVPDA AGTSLYVRPV LIGNEPSLGV SQPTRALLFV ILCPVGAYFP GGSVTPVSLI ADPAFIRAWV GGVGNYKLG
NYGPTVLVQQ EALKRGCEQV LWLYGPDHQL TEVGTMNIFV YWTHEDGVLE LVTPPLNGVI LPGVVRQSLL DMAQTWGEFR
VVERTITMKQ LLRALEEGRV REVFGSGTAC QVCPVHRILY KDRNLHIPTM ENGPELILRF QKELKEIQYG IRAHEWMPV

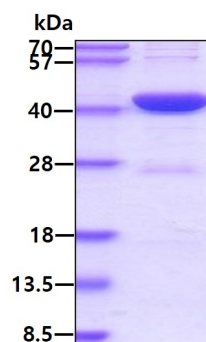
General References

Coles SJ. et al. (2009) Biochemistry Jan 27
48(3):645-56.

Yennawar N.H.et al. (2007) J. Biol. Chem. 281:39660-39671

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.