# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 28-392aa

**UniProt No.** 015382

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

ins rag

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.



### **Amino acid Sequence**

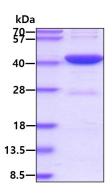
<MGSSHHHHHH SSGLVPRGSH MGSHM>ASSSF KAADLQLEMT QKPHKKPGPG EPLVFGKTFT DHMLMVEWND KGWGQPRIQP FQNLTLHPAS SSLHYSLQLF EGMKAFKGKD QQVRLFRPWL NMDRMLRSAM RLCLPSFDKL ELLECIRRLI EVDKDWVPDA AGTSLYVRPV LIGNEPSLGV SQPTRALLFV ILCPVGAYFP GGSVTPVSLL ADPAFIRAWV GGVGNYKLGG NYGPTVLVQQ EALKRGCEQV LWLYGPDHQL TEVGTMNIFV YWTHEDGVLE LVTPPLNGVI LPGVVRQSLL DMAQTWGEFR VVERTITMKQ LLRALEEGRV REVFGSGTAC QVCPVHRILY KDRNLHIPTM ENGPELILRF QKELKEIQYG IRAHEWMFPV

#### **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.