
Product Data Sheet

Product Name: BCAT2 Human
 Cat. No.: GP21434
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Branched-chain-amino-acid aminotransferase mitochondrial; BCAT(m); Placental protein 18; PP18; BCAT2; BCATM; BCT2; ECA40; BCAM.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMMASSSF KAADLQLEMT QKPHKKPGPG EPLVFGKTFT DHMLMVEWND KGWGQPRIQP FQNLTLHPAS SSLHYSLQLF EGMKAFKGD QQVRLFRPWL NMDRMLRSAM RLCLPSFDKL ELLECIRRLI EVDKDWVDA AGTSLYVRPV LIGNEPSLGV SQPTRALLFV ILCPVGAYFP GGSVTPVSL ADPAFIRAWV GGVGNYKGG NYGPTVLVQQ EALKRGCEQV LWLYGPDHQL TEVGTMNIFV YWTHEDGVLE LVTPPLNGVI LPGVVRQSL DMAQTWGEFR VVERTITMKQ LLRALEEGRV REVFGSGTAC QVCPVHRILY KDRNLHIPTM ENGPELILRF QKELKEIQYG IRAHEWMFPV.		
Formulation	The BCAT2 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 7.5), 10% glycerol, 0.2M NaCl and 1mM DTT.		

Introduction

Branched Chain Amino-Acid Transaminase 2 (BCAT2) is a member of the class-IV pyridoxal-phosphate-dependent aminotransferase family. BCAT2 is a branched chain aminotransferase found in mitochondria. BCAT2 forms a dimer which catalyzes the first step in the production of the branched chain amino acids leucine, isoleucine, and valine. In addition, BCAT2 may act as a transporter of branched chain alpha-keto acids.

Stability

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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BCAT2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 390 amino acids (28-392) and having a molecular mass of 43.9kDa. BCAT2 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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