

Recombinant human BCAT1 protein

Catalog Number: ATGP1479

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-386aa

UniProt No.

P54687

NCBI Accession No.

NP_005495

Alternative Names

Branched chain amino-acid transaminase cytosolic, Branched chain amino-acid transaminase, cytosolic, BCATC, BCT1, ECA39, MECA39, PNAS121, PP18

PRODUCT SPECIFICATION

Molecular Weight

45.4 kDa (409aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M 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

BCAT1, also known as branched chain amino-acid transaminase, cytosolic, catalyzes the first reaction in the catabolism of the essential branched chain amino acids leucine, isoleucine, and valine. Recombinant human BCAT1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMKDCSNG CSAECTGEGG SKEVVGTFKA KDLIVTPATI LKEKDPNNL VFGTVFTDHM
LTVEWSSEFG WEKPHIKPLQ NLSLHPGSSA LHYAVELFEG LKAFRGVDNK IRLFQPNLM DRMYRSAVRA TLPVFDKEEL
LECIQQLVKL DQEWVPYSTS ASLYIRPTFI GTEPSLGVKK PTKALLFVLL SPVGPYFSSG TFNPVSLWAN PKYVRAWKGG
TGDCMKGGNY GSSLFAQCEA VDNGCQQVLW LYGEDHQITE VGTMNLFYW INEDGEEEELA TPPLDGIILP GVTRRCILD
AHQWGEFKVS ERYLTMDDLT TALEGNRVRE MFGSGTACVV CPVSDILYKG ETIHPTMEN GPKLASRILS KLTDIQYGRE
ESDWTIVLS

General References

Goto M., et al. (2005) J. Biol. Chem. 280:37246-37256

Schuldiner O., et al. (1996) Proc. Natl. Acad. Sci. u.S.A. 93:7143-7148

DATA

SDS-PAGE

(kDa)

57

40

28

18

13.5



15% SDS-PAGE (3ug)

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