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Recombinant human BCKDHA protein

Catalog Number: ATGP0944

PRODUCT INFORMATION

Expression system

E.coli

Domain

46-445aa

UniProt No.

P12694

NCBI Accession No.

NP 000700.1

Alternative Names

2-oxoisovalerate dehydrogenase subunit alpha, BCKDE1A, BCKDH E1-alpha, MSu, MSuD1, OVD1A

PRODUCT SPECIFICATION

Molecular Weight

47.8 kDa (421aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 30% glycerol, 0.2M NaCl

Purity

> 80% 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

BCKDHA (branched-chain alpha-keto acid dehydrogenase E1 component alpha chain), also known as 2-oxoisovalerate dehydrogenase subunit alpha, belongs to the BCKDHA family. The branched-chain alpha-keto acid dehydrogenase complex is an innter mitochondrial enzyme complex that catalyzes the second major step in the catabolism of the branched-chain amino acids leucine, isoleucine, and valine. The BCKD complex consists of three catalytic components: a heterotetrameric (alpha2-beta2) branched-chain alpha-keto acid decarboxylase (E1), a dihydrolipoyl transacylase (E2), and a dihydrolipoamide dehydrogenase (E3). Recombinant human



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

Amino acid Sequence

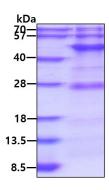
<MGSSHHHHHH SSGLVPRGSH> MSSLDDKPQF PGASAEFIDK LEFIQPNVIS GIPIYRVMDR QGQIINPSED PHLPKEKVLK LYKSMTLLNT MDRILYESQR QGRISFYMTN YGEEGTHVGS AAALDNTDLV FGQYREAGVL MYRDYPLELF MAQCYGNISD LGKGRQMPVH YGCKERHFVT ISSPLATQIP QAVGAAYAAK RANANRVVIC YFGEGAASEG DAHAGFNFAA TLECPIIFFC RNNGYAISTP TSEQYRGDGI AARGPGYGIM SIRVDGNDVF AVYNATKEAR RRAVAENQPF LIEAMTYRIG HHSTSDDSSA YRSVDEVNYW DKQDHPISRL RHYLLSQGWW DEEQEKAWRK QSRRKVMEAF EQAERKPKPN PNLLFSDVYQ EMPAQLRKQQ ESLARHLQTY GEHYPLDHFD K

General References

Nobukuni Y., et al. (1993) Biochim. Biophys. Acta 1225:64-70 Funchal, C., et al. (2005) Metab. Brain Dis. 20: 205-217

DATA

SDS-PAGE



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

