

AR09884PU-S

Human BCKDHA (46-445, His-tag) - Purified

Alternate names:

2-oxoisovalerate dehydrogenase subunit alpha mitochondrial, BCKDE1A, Branched-chain alpha-keto acid dehydrogenase E1 component alpha chain, alpha-keto acid dehydrogenase

Quantity:

10 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

BCKDHA (branched-chain α-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 inter 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 (α₂-β₂) branched-chain alpha-keto acid decarboxylase (E1), a dihydrolipoyl transacylase (E2), and a dihydrolipoamide dehydrogenase (E3).

Uniprot ID:

[P12694](#)

NCBI:

[NP_000700](#)

GeneID:

[593](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >80%

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 30% glycerol, 0.2M NaCl

Description:

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

AA Sequence:

MGSSHHHHHH SSSLVPRGSH MSSLDKPQF PGASAEFIDK LEFIQPNVIS GIPIYRVMDR
 QGQIINPSED PHLPEKEVLK LYKSMTLLNT MDRILYESQR QGRISFYMTN YGEEGTHVGS
 AAALDNTDLV FGQYREAGVL MYRDYPLELF MAQCYGNISD LGKGRQMPVH YGCKERHFVT
 ISSPLATQIP QAVGAAYAAK RANANRVVIC YFGEGAASEG DAHAGFNFAA TLECPIIFFC
 RNNGYAISTP TSEQYRGDGI AARGPGYGIM SIRVDGNDVF AVYNATKEAR RRAVAENQPF
 LIEAMTYRIG HHSTSDSSA YRSVDEVNYW DKQDHPISRL RHYLLSQGW DEEQEKAWRK
 QSRRKVMEAF EQAERKPKPN PNLLFSDVYQ EMPAQLRKQQ ESLARHLQTY GEHYPLDHF D K

Molecular weight: 47.8 kDa (421aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

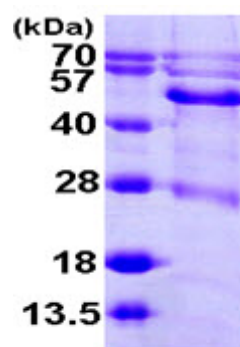
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

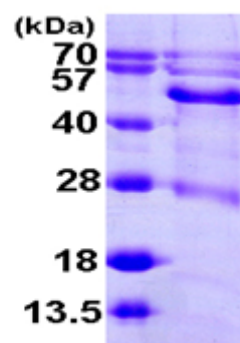
Funchal, C., et al. (2005) Metab. Brain Dis. 20: 205-217.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human BCKDHA, 46-445
aa, His-tagged



15% SDS-PAGE (3ug)