

Recombinant human ACAD8 protein

Catalog Number: ATGP2421

PRODUCT INFORMATION

Expression system

E.coli

Domain

23-415aa

UniProt No.

Q9UKU7

NCBI Accession No.

NP_055199

Alternative Names

isobutyryl-CoA dehydrogenase mitochondrial, isobutyryl-CoA dehydrogenase, mitochondrial, ACAD-8, ARC42, Activator-recruited cofactor 42 kDa component, Acyl-CoA dehydrogenase family member 8, IBD

PRODUCT SPECIFICATION

Molecular Weight

45.1 kDa (416aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

Purity

> 95% 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

ACAD8 is a member of the acyl-CoA dehydrogenase family of enzymes that catalyze the dehydrogenation of acyl-CoA derivatives in the metabolism of fatty acids or branch chained amino acids. The protein is a mitochondrial enzyme that functions in catabolism of the branched-chain amino acid valine. Defects in this gene are the cause of isobutyryl-CoA dehydrogenase deficiency. Recombinant human ACAD8 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

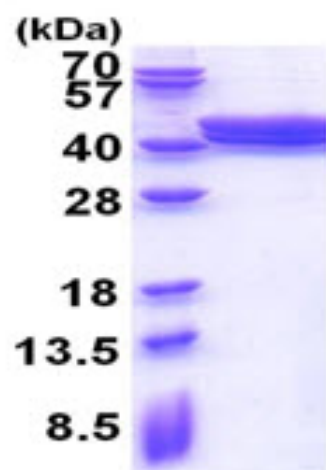
MGSSHHHHHH SGLVPRGSH MGSLVQTGHR SLTSCIDPSM GLNEEQKEFQ KVAFDFAARE MAPNMAEWDQ
KELFPVDVMR KAAQLGFGGV YIQTDVGGSG LSRLDTSVIF EALATGCTST TAYISIHNM C AWMIDSGNE EQRHKFCPPL
CTMEKFASYC LTEPGSGSDA ASLLTSAKKQ GDHYILNGSK AFISGAGESD IYVVMCRTGG PGPKGISCIV VEKGTPLSF
GKKEKKVGNW SQPTRAVIFE DCAVPVANRI GSEGQFLIA VRGLNGGRIN IASCSLGA AH ASVILTRDHL NVRKQFGEPL
ASNQYLQFTL ADMATRLVAA RLMVRNAAVA LQEERKDAVA LCSMAKLFAT DECFAICNQA LQMHGGYGYL KDYAVQQYVR
DSRVHQILEG SNEVMRILIS RSLLE

General References

Hendrickson, S.L., et al. (2010) PLoS ONE 5 (9), E12862
Battaile, K.P., et al. (2004) J. Biol. Chem. 279 (16), 16526-16534

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)