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Recombinant human ACADSB protein

Catalog Number: ATGP1628

PRODUCT INFORMATION

Expression system
E.coli

Domain
34-432aa

UniProt No.
P45954

NCBI Accession No.
NP_001600

Alternative Names
Short/branched chain specific acyl-CoA dehydrogenase mitochondrial, Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial, 2-MEBCAD, ACAD7, SBCAD

PRODUCT SPECIFICATION

Molecular Weight
46.4 kDa (424aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,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
Short/branched chain specific acyl-CoA dehydrogenase (ACADSB), 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. ACADSB catalyzes the degradation of L-isoleucine and has the highest affinity for (s) -2-methylbutyryl-CoA, isobutyryl-CoA and 2-methylhexanoyl-CoA as substrates. Defects in ACADSB are the cause of short/branched-chain acyl-CoA dehydrogenase deficiency (SBCADD), an autosomal recessive disorder

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characterized by an increase of 2-methylbutyrylglycine and 2-methylbutyrylcarnitine in blood and urine. Recombinant human ACADSB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

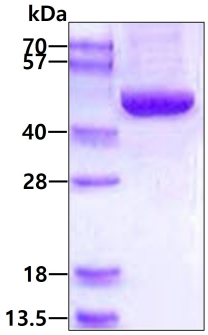
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General References

Arden K C., et al. (1995) Genomics. 25: 743-745.
Korman S H., et al. (2005) Clin Chem. 51: 610-617.

DATA

SDS-PAGE



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