

ACAD8, 23-415aa, Human, His tag, E.coli

Cat.NO.: TP01024

3th Edition

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

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.

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

Molecular Weight: 45.1kDa (416aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSLVQTGHRSLTSCIDPSMGLNEEQKEFQKVAFDFAAREMAPNMAEWDQKEL
FPVDVMRKAQQLGFGGVYIQTDVGGSGLSRLDTSVIFEALATGCTSTTAYISIHNMCAWMIDSFGNEEQRHKFCPPL
CTMEKFASYCLTEPGSGSDAASLLTSAKKQGDHYILNGSKAFISGAGESDIYVVMCRTGGPGPKGISCIVVEKGTPG
LSFGKKEKKVGWNSQPTRAVIFEDCAVPVANRIGSEGQGFIAVRGLNGGRINIASCSLGAHASVILTRDHLNVRK
QFGEPLASNQYLQFTLADMATRLVAARLMVRNAAVALQEERKDAVALCSMAKLFATDECFAICNQALQMGGYGY
LKDYAVQQYVRDSRVHQILEGSNEVMRILISRSLLQE

Purity: > 95% by HPLC

Concentration: 0.25mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.