

32-2101: ACAD8 Recombinant Protein

Alternative Name : Acyl-CoA dehydrogenase family member 8 mitochondrial, ACAD-8, Isobutyryl-CoA dehydrogenase, Activator-recruited cofactor 42 kDa component, ARC42, FLJ22590.

Description

Source : Escherichia Coli. ACAD8 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 416 amino acids (23-415) and having a molecular mass of 45.1kDa. ACAD8 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Acyl CoA dehydrogenase is the enzyme used to catalyze the first step of β -oxidation in Fatty acid metabolism. Acyl-coenzyme A (CoA) dehydrogenases (ACADs) are a family of mitochondrial enzymes that catalyze the first dehydrogenation step in the β -oxidation of fatty acyl-CoA derivatives. Several human ACADs exist and all ACADs catalyze the same initial dehydrogenation of the substrate at the beta-carbon atom and require electron transfer flavoprotein as an electron acceptor. The predicted 415-amino acid ACAD8 protein contains many of the residues conserved in most other ACADs, including an active site glutamic acid residue and residues important for tetramer formation.

Product Info

Amount : 20 μ g
Purification : Greater than 95% as determined by SDS-PAGE.
Content : The ACAD8 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 30% glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SGLVPRGSH MGSLVQTGHR SLTSCIDPSM GLNEEQKEFQ KVAFDFAARE
MAPNMAEWDQ KELFPVDVMR KAAQLGFGGV YIQTDVGGSG LSRLDTSVIF EALATGCTST
TAYISIHNMCAWMIDSGNE EQRHKFCPPL CTMEKFASYC LTEPGSGSDA ASLLTSAKKQ
GDHYILNGSK AFISGAGESD IYVVMCRTGG GPKGISCIV VEKGTPLSF GKKEKKGWN
SQPTRAVIFE DCAVPVANRI GSEGQGLIA VRGLNGGRIN IASCSLGAH ASVILTRDHL
NVRKQFGEPL ASNQYLQFTL ADMATRLVAA RLMVRNAVA LQEERKDAVA LCSMAKLFAT
DECFAICNQA LQMGGYGYL KDYAVQQYVR DSRVHQILEG SNEVMRILIS RLLQE.

