



Product Data Sheet

□ Cat # RP-380

Recombinant Human Acyl-Coenzyme A Dehydrogenase 8

Size: □ 10 ug

Acyl CoA dehydrogenase is the enzyme used to catalyze the first step of  $\beta$ -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  $\beta$ -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.

**Source:** Escherichia Coli. Acyl-Coenzyme A Dehydrogenase 8 Human Recombinant produced in E.Coli is a non-glycosylated, polypeptide chain containing amino acids 1-415 and having a total molecular mass of 47.7 kDa. ACAD8 contains T7 tag at the N-terminus. ACAD-8 is purified by proprietary chromatographic techniques. Acyl-Coenzyme A Dehydrogenase 8 at a concentration of 0.1mg/ml in 10mM Tris, pH 8.0, 0.1% Triton X-100, 0.002% NaN<sub>3</sub>, 10mM DTT.

**Applications and Suggested Dilutions:** • ELISA • MS • Inhibition Assays • Western Blotting Greater than 95.0% as determined by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** ACAD8 although stable at 14°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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