Creative Enzymes®

medium-chain acyl-CoA dehydrogenase

Cat. No. EXWM-1414

Lot. No. (See product label)

Introduction

Description	Contains FAD as prosthetic group. One of several enzymes that catalyse the first step in fatty acids β-oxidation. The enzyme from pig liver can accept substrates with acyl chain lengths of 4 to 16 carbon atoms, but is most active with C8 to C12 compounds. The enzyme from rat does not accept C16 at all and is most active with C6-C8 compounds. cf. EC 1.3.8.1, short-chain acyl-CoA dehydrogenase, EC 1.3.8.8, long-chain acyl-CoA dehydrogenase, and EC 1.3.8.9, very-long-chain acyl-CoA dehydrogenase.
Synonyms	fatty acyl coenzyme A dehydrogenase (ambiguous); acyl coenzyme A dehydrogenase (ambiguous); acyl dehydrogenase (ambiguous); fatty-acyl-CoA dehydrogenase (ambiguous); acyl CoA dehydrogenase (ambiguous); general acyl CoA dehydrogenase (ambiguous); medium-chain acyl-coenzyme A dehydrogenase; acyl-CoA:(acceptor) 2,3-oxidoreductase (ambiguous); ACADM (gene name).

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.3.8.7
Reaction	a medium-chain acyl-CoA + electron-transfer flavoprotein = a medium-chain trans-2,3-dehydroacyl-CoA + reduced electron-transfer flavoprotein
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.