

## very-long-chain acyl-CoA dehydrogenase

Cat. No. EXWM-1416

Lot. No. (See product label)

### Introduction

#### Description

Contains FAD as prosthetic group. One of several enzymes that catalyse the first step in fatty acids  $\beta$ -oxidation. The enzyme is most active toward long-chain acyl-CoAs such as C14, C16 and C18, but is also active with very-long-chain acyl-CoAs up to 24 carbons. It shows no activity for substrates of less than 12 carbons. Its specific activity towards palmitoyl-CoA is more than 10-fold that of the long-chain acyl-CoA dehydrogenase. cf. EC 1.3.8.1, short-chain acyl-CoA dehydrogenase, EC 1.3.8.7, medium-chain acyl-CoA dehydrogenase, and EC 1.3.8.8, long-chain acyl-CoA dehydrogenase.

#### Synonyms

ACADVL (gene name).

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.3.8.9

#### Reaction

a very-long-chain acyl-CoA + electron-transfer flavoprotein = a very-long-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 °C for short term. For long term storage, store it at -20 °C~-80 °C.