

## very-long-chain 3-oxoacyl-CoA reductase

Cat. No. EXWM-0244

Lot. No. (See product label)

### Introduction

#### Description

The second component of the elongase, a microsomal protein complex responsible for extending palmitoyl-CoA and stearoyl-CoA (and modified forms thereof) to very-long-chain acyl CoAs. The enzyme is active with substrates with chain length of C16 to C34, depending on the species. cf. EC 2.3.1.199, very-long-chain 3-oxoacyl-CoA synthase, EC 4.2.1.134, very-long-chain (3R)-3-hydroxyacyl-[acyl-carrier protein] dehydratase, and EC 1.3.1.93, very-long-chain enoyl-CoA reductase.

#### Synonyms

very-long-chain 3-ketoacyl-CoA reductase; very-long-chain  $\beta$ -ketoacyl-CoA reductase; KCR (gene name); IFA38 (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.1.1.330

#### Reaction

a very-long-chain (3R)-3-hydroxyacyl-CoA + NADP<sup>+</sup> = a very-long-chain 3-oxoacyl-CoA + NADPH + H<sup>+</sup>

#### 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.