

## enoyl-[acyl-carrier-protein] reductase (NADPH)

Cat. No. EXWM-1276

Lot. No. (See product label)

### Introduction

#### Description

The enzyme completes each cycle of fatty acid elongation by catalysing the stereospecific reduction of the double bond at position 2 of a growing fatty acid chain, while linked to the acyl-carrier protein, in an NADPH-dependent manner. This entry stands for enzymes whose stereo-specificity with respect to NADP+ is not known. [cf. EC 1.3.1.39 enoyl-[acyl-carrier-protein] reductase (NADPH, Re-specific), EC 1.3.1.10, enoyl-[acyl-carrier-protein] reductase (NADPH, Si-specific) and EC 1.3.1.9, enoyl-[acyl-carrier-protein] reductase (NADH)].

#### Synonyms

acyl-ACP dehydrogenase (ambiguous); enoyl-[acyl carrier protein] (reduced nicotinamide adenine dinucleotide phosphate) reductase; NADPH 2-enoyl Co A reductase; enoyl-ACP reductase (ambiguous); fabL (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.3.1.104

#### Reaction

an acyl-[acyl-carrier protein] + NADP+ = a trans-2,3-dehydroacyl-[acyl-carrier protein] + NADPH + H+

#### 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.