

## hex-5-enoyl-[acyl-carrier protein] acetylenase

Cat. No. EXWM-1005

Lot. No. (See product label)

### Introduction

#### Description

The enzyme, characterized from the marine cyanobacterium *Moorea producens*, is involved in production of the ion channel blocker jamaicamide A. It is specific for hexanoate or hex-5-enoate loaded onto a dedicated acyl-carrier protein (JamC), which is encoded by a gene in the same operon.

#### Synonyms

jamB (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.19.40

#### Reaction

hex-5-enoyl-[acyl-carrier protein] + 2 reduced ferredoxin [iron-sulfur] cluster + O<sub>2</sub> + 2 H<sup>+</sup> = hex-5-ynoyl-[acyl-carrier protein] + 2 oxidized ferredoxin [iron-sulfur] cluster + 2 H<sub>2</sub>O

#### 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.