

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 + O₂ + 2 H⁺ = hex-5-ynoyl-[acyl-carrier protein] + 2 oxidized ferredoxin [iron-sulfur] cluster + 2 H₂O

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.