

palmitoyl-CoA 14-(E/Z)-desaturase

Cat. No. EXWM-0996

Lot. No. (See product label)

Introduction

Description

The enzyme, found in the moth *Ostrinia furnacalis* (Asian corn borer), produces a mixture of (E)- and (Z)- isomers. The products are subsequently truncated by partial β -oxidation to a blend of 12(E/Z)-tetradec-12-enoyl-CoA, which are converted to the species-specific sex pheromones (E)- and (Z)-tetradec-12-enoyl acetates.

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.19.32

Reaction

(1) palmitoyl-CoA + 2 ferrocytochrome b5 + O₂ + 2 H⁺ = (14E)-hexadec-14-enoyl-CoA + 2 ferricytochrome b5 + 2 H₂O; (2) palmitoyl-CoA + 2 ferrocytochrome b5 + O₂ + 2 H⁺ = (14Z)-hexadec-14-enoyl-CoA + 2 ferricytochrome b5 + 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.