Creative Enzymes®

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.