Creative Enzymes®

# Δ12 acyl-lipid conjugase (11E,13E-forming)

*Cat. No. EXWM-0997*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | The enzyme, characterized from the plants Impatiens balsamina, Momordica charantia (bitter gourd) and Vernicia fordii (tung tree), converts a single cis double bond at carbon 12 to two conjugated trans bonds at positions 11 and 13. The enzyme from Vernicia fordii can also act as a 12(E) desaturase when acting on the monounsaturated fatty acids oleate and palmitoleate. cf. EC 1.14.19.16, linoleoyl-lipid Δ12 conjugase (11E,13Z-forming). |
| ***Synonyms*** | fatty acid Δ12-conjugase (ambiguous); FADX (gene name) |

## Product Information

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| ***Form*** | Liquid or lyophilized powder |
| ***EC Number*** | EC 1.14.19.33 |
| ***Reaction*** | (1) a linoleoyl-[glycerolipid] + 2 ferrocytochrome b5 + O2 + 2 H+ = an α-eleostearoyl-[glycerolipid] + 2 ferricytochrome b5 + 2 H2O; (2) a γ-linolenoyl-[glycerolipid] + 2 ferrocytochrome b5 + O2 + 2 H+ = an α-parinaroyl-[glycerolipid] + 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

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| ***Storage*** | Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃. |