Creative Enzymes®

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

Cat. No. EXWM-0997

Lot. No. (See product label)

Introduction

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

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

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