

## acyl-lipid (9+3)-(E)-desaturase

Cat. No. EXWM-0998 Lot. No. (See product label)

Introduction	
Description	The enzymes from the plants Dimorphotheca sinuata (African daisy) and Vernicia fordii (tung oil tree) insert a trans double bond in position C-12 of oleate and palmitoleate incorporated into glycerolipids. The enzyme introduces the new double bond at a position three carbons away from an existing double bond at position 9, towards the methyl end of the fatty acid. The enzyme from tung oil tree also possesses the activity of EC 1.14.19.33, $\Delta$ 12 acyl-lipid conjugase.
Synonyms	acyl-lipid 12-(E)-desaturase; DsFAD2-1; FADX
Product Information	
Form	Liquid or lyophilized powder
EC Number	EC 1.14.19.34
Reaction	(1) an oleoyl-[glycerolipid] + 2 ferrocytochrome $b5 + O2 + 2 H+ = a (9Z,12E)$ - octadeca-9,12-dienoyl-[glycerolipid] + 2 ferricytochrome $b5 + 2 H2O$ ; (2) a palmitoleoyl-[glycerolipid] + 2 ferrocytochrome $b5 + O2 + 2 H+ = a (9Z,12E)$ - hexadeca-9,12-dienoyl-[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 Shinning Information	

## Storage and Shipping Information

Storage

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