Creative Enzymes®

sn-1 oleoyl-lipid 12-desaturase

Cat. No. EXWM-1010

Lot. No. (See product label)

Introduction

Description	The enzyme, characterized from cyanobacteria, introduces a cis double bond at carbon 12 of oleoyl groups (18:1) attached to the sn-1 position of glycerolipids. The enzyme is a methyl-end desaturase, introducing the new double bond between a pre-existing double bond and the methyl-end of the fatty acid. It is nonspecific with respect to the polar head group of the glycerolipid.
Synonyms	desA (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.19.45
Reaction	a 1-oleoyl-2-acyl-[glycerolipid] + 2 reduced ferredoxin [iron-sulfur] cluster + O2 + 2 H+ = a 1-linoleoyl-2-acyl-[glycerolipid] + 2 oxidized ferredoxin [iron-sulfur] cluster + 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 ℃.