

## sn-1 stearoyl-lipid 9-desaturase

Cat. No. EXWM-0991

Lot. No. (See product label)

### Introduction

#### Description

The enzyme, characterized from cyanobacteria, introduces a cis double bond at carbon 9 of stearyl groups (18:0) attached to the sn-1 position of glycerolipids. The enzyme is nonspecific with respect to the polar head group of the glycerolipid.

#### Synonyms

desC (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.19.28

#### Reaction

a 1-stearoyl-2-acyl-[glycerolipid] + 2 reduced ferredoxin [iron-sulfur] cluster + O<sub>2</sub> + 2 H<sup>+</sup> = a 1-oleoyl-2-acyl-[glycerolipid] + 2 oxidized ferredoxin [iron-sulfur] cluster + 2 H<sub>2</sub>O

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