Creative Enzymes®

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 stearoyl 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 + O2 + 2 H+ = a 1-oleoyl-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 ℃.