Creative Enzymes®

acyl-lipid (9-3)-desaturase

Cat. No. EXWM-1012

Lot. No. (See product label)

Introduction

Description	The enzyme, characterized from the moss Physcomitrella patens and the plant Borago officinalis (borage), introduces a cis double bond at carbon 6 of several acyl-lipids that contain an existing Δ9 cis double bond. The enzyme contains a cytochrome b5 domain that acts as the electron donor for the active site of the desaturase.
Synonyms	acyl-lipid 6-desaturase; Δ6-desaturase; DES6 (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.19.47
Reaction	(1) an α-linolenoyl-[glycerolipid] + 2 ferrocytochrome b5 + O2 + 2 H+ = a stearidonoyl-[glycerolipid] + ferricytochrome b5 + 2 H2O; (2) a linoleoyl-[glycerolipid] + 2 ferrocytochrome b5 + O2 + 2 H+ = a γ-linolenoyl-[glycerolipid] + 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 ℃.