

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 $\Delta 9$ 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; $\Delta 6$ -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 °C for short term. For long term storage, store it at -20 °C~-80 °C.