Creative Enzymes®

acyl-lipid ω-6 desaturase (cytochrome b5)

Cat. No. EXWM-0985

Lot. No. (See product label)

Introduction

Description	This microsomal enzyme introduces a cis double bond in fatty acids attached to lipid molecules at a location 6 carbons away from the methyl end of the fatty acid. The distance from the carboxylic acid end of the molecule does not affect the location of the new double bond. The most common substrates are oleoyl groups attached to either the sn-1 or sn-2 position of the glycerol backbone in phosphatidylcholine. cf. EC 1.14.19.23, acyl-lipid ω-6 desaturase (ferredoxin).
Synonyms	oleate desaturase (ambiguous); linoleate synthase (ambiguous); oleoyl-CoA desaturase (incorrect); oleoylphosphatidylcholine desaturase (ambiguous); phosphatidylcholine desaturase (ambiguous); n-6 desaturase (ambiguous); FAD2 (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.19.22
CAS No.	72536-70-0
Reaction	an oleoyl-[glycerolipid] + 2 ferrocytochrome b5 + O2 + 2 H+ = a linoleoyl-[glycerolipid] + 2 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 ℃.