

acyl-[acyl-carrier-protein] 6-desaturase

Cat. No. EXWM-0989

Lot. No. (See product label)

Introduction

Description The enzyme, characterized from the endosperm of the plant Thunbergia alata

(black-eyed Susan vine), introduces a cis double bond at carbon 6 of several saturated acyl-[acp]s. It is most active with palmitoyl-[acp] (16:0), but can also act on myristoyl-[acp] (14:0) and stearoyl-[acp] (18:0). The position of the double bond

is determined by its distance from the carboxyl end of the fatty acid.

Synonyms DELTA6 palmitoyl-ACP desaturase; DELTA6 16:0-ACP desaturase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.19.26

Reaction palmitoyl-[acyl-carrier protein] + 2 reduced ferredoxin [iron-sulfur] cluster + O2 +

2 H+ = (6Z)-hexadec-6-enoyl-[acyl-carrier protein] + 2 oxidized ferredoxin [iron-

1/1

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

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com