

## acyl-CoA 15-desaturase

Cat. No. EXWM-0975

Lot. No. (See product label)

### Introduction

#### Description

The enzyme, characterized from the the plant *Sorghum bicolor*, is involved in the biosynthesis of sorgoleone, an allelopathic compound produced in root hair cells. The enzyme inserts a cis double bond at carbon 15. When acting on its natural substrate, (9Z,12Z)-hexadeca-9,12-dienoyl-CoA, it produces a product with a terminal double bond.

#### Synonyms

DES3 (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.19.13

#### Reaction

(9Z,12Z)-hexadeca-9,12-dienoyl-CoA + reduced acceptor + O<sub>2</sub> = (9Z,12Z,15Z)-hexadeca-9,12,15-trienoyl-CoA + acceptor + 2 H<sub>2</sub>O

#### 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.