Creative Enzymes®

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 + O2 = (9Z,12Z,15Z)-hexadeca-9,12,15-trienoyl-CoA + acceptor + 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 ℃.