Creative Enzymes®

sphingolipid 10-desaturase

Cat. No. EXWM-0981

Lot. No. (See product label)

Introduction

Description	The enzyme, characterized from the marine diatom Thalassiosira pseudonana, produces an all-trans product. Similar triunsaturated sphingoid bases are found in some marine invertebrates. The enzyme determines the position of the double bond by its distance from the alcohol end of the sphingoid base, and contains a cytochrome b5 domain that acts as the direct electron donor to the active site of the desaturase.
Synonyms	desA (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.19.19
Reaction	a (4E,8E)-sphinga-4,8-dienine ceramide + 2 ferrocytochrome b5 + O2 + 2 H+ = a (4E,8E,10E)-sphinga-4,8,10-trienine ceramide + 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 ℃.