

sphingolipid 4-desaturase

Cat. No. EXWM-0979

Lot. No. (See product label)

Introduction

Description The enzyme, which has been characterized from plants, fungi, and mammals,

generates a trans double bond at position 4 of sphinganine bases in sphingolipids. The preferred substrate is dihydroceramide, but the enzyme is also active with dihydroglucosylceramide. Unlike EC 1.14.19.29, sphingolipid 8-desaturase, this enzyme does not contain an integral cytochrome b5 domain and requires an external cytochrome b5. The product serves as an important signalling molecules

1/1

in mammals and is required for spermatide differentiation.

Synonyms dehydroceramide desaturase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.19.17

Reaction a dihydroceramide + 2 ferrocytochrome b5 + O2 + 2 H+ = a (4E)-sphing-4-enine

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

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